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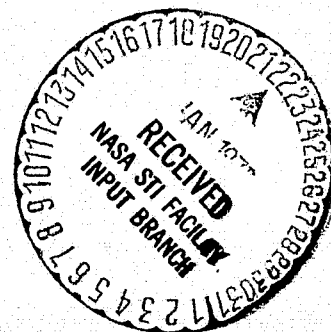
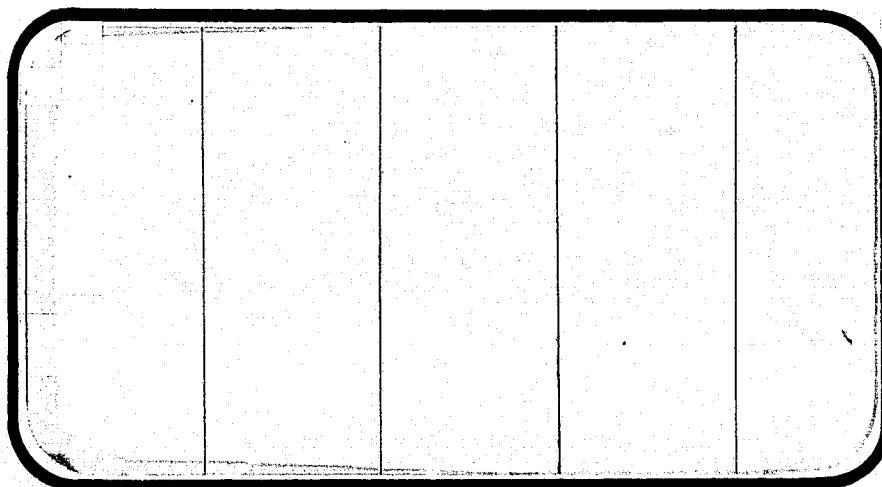
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(NASA-CR-144582) HEAT-FLUX GAGE
MEASUREMENTS ON A FLAT PLATE AT A MACH
NUMBER OF 4.6 IN THE VSD HIGH SPEED WIND
TUNNEL, A FEASIBILITY TEST (LA28) (Chrysler
Corp.) 109 p HC \$5.50

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SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT

JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA MANAGEMENT services

SPACE DIVISION



CHRYSLER
CORPORATION

December, 1975

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HEAT-FLUX GAGE MEASUREMENTS ON A
FLAT PLATE AT A MACH NUMBER OF 4.6
IN THE VSD HIGH SPEED WIND TUNNEL-
A FEASIBILITY TEST (LA28)

Prepared under NASA Contract Number NAS9-13247

by

Data Management Services
Chrysler Corporation Space Division
New Orleans, La. 70189

for

Engineering Analysis Division

Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas

WIND TUNNEL TEST SPECIFICS:

Test Number: VSD High Speed Wind Tunnel 498
NASA Series Number: LA28
Test Dates: 17 and 18 June, 1974
Occupancy Hours: 17.04

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HEAT-FLUX GAGE MEASUREMENTS ON A
FLAT PLATE AT A MACH NUMBER OF 4.6
IN THE VSD HIGH SPEED WIND TUNNEL-
A FEASIBILITY TEST (LA28)

ABSTRACT

The objective of this test was to determine the feasibility of employing thin-film heat-flux gages as a method of defining boundary layer characteristics at supersonic speeds in the VSD High Speed Wind Tunnel.

TABLE OF CONTENTS

	Page
ABSTRACT	iii
INDEX OF MODEL FIGURES	2
INTRODUCTION	3
NOMENCLATURE	4
MODEL DESCRIPTION	5
TEST FACILITY DESCRIPTION	6
TEST PROCEDURES	7
DATA REDUCTION	9
REFERENCES	10
TABLES	
I. SUMMARY OF HEAT FLUX GAGE DATA AND COMMENTS	11
II. RUN LOG	12
FIGURES	15
APPENDIX	19
TABULATED SOURCE DATA	

INDEX OF MODEL FIGURES

Figure	Title	Page
1.	Heat Flux Gage Locations	15
2.	Installation Sketch	16
3.	Model Installed in Supersonic Wind Tunnel	17

INTRODUCTION

This report summarizes the results obtained during a test to determine the feasibility of employing thin-film heat-flux gauges as a method of defining boundary layer characteristics in the Vought Systems Division (VSD) High Speed Wind Tunnel. The test was conducted on June 17 and 18, 1974, at a Mach number of 4.6 and unit Reynolds numbers from 13.0 to 18.6 $\times 10^6$ per foot.

NOMENCLATURE

<u>Computer Symbol</u>	<u>Definition</u>
PNT	Data sequence number
Alpha	Angle of attack, degrees
PO	Stagnation pressure, psia
PS	Freestream static pressure, psia
MACH	Mach number
V	True airspeed, feet per second
VEAS	Equivalent airspeed, feet per second
SIGMA	Freestream density ratioed to sea level
RN/L	Unit Reynolds number, per foot
q or Q	Dynamic pressure, psf
TO	Stagnation temperature, degrees Rankine
PHI	Model roll angle, degrees

MODEL DESCRIPTION

The flat plate model, equipped with four Thermo-Systems, Inc., Model 1268 Flush Surface thin-film heat-flux gages and all readout and recording equipment associated with the gages, was supplied by the customer. A sketch of the model is presented in figure 1 and the installation is illustrated in figures 2 and 3. Instrumentation was provided by VSD for the measurement of tunnel stagnation pressure and temperature, which were required for the computation of flow parameters.

TEST FACILITY DESCRIPTION

The Vought Aeronautics Company High Speed Wind Tunnel is an atmospheric exhaust, blow down tunnel with a 4 foot by 4 foot test section size. The Mach number range of the tunnel is from 0.5 to 5.0. Air is stored in six tanks, with a total volume of twenty-eight thousand cubic feet, at a maximum pressure of 600 psia and a nominal temperature of 100 degrees Fahrenheit.

The circuit utilizes both supersonic and transonic test sections, each 4 foot by 4 foot in cross section and slightly over five feet long. For supersonic operation a single-peak variable diffuser is placed downstream of the supersonic test section. For transonic operation the variable diffuser is removed from the circuit and replaced with a porous wall, transonic test section with 22 percent wall porosity. The transonic plenum is pumped by ejector action of the main tunnel airstream acting on controllable ejector flaps located downstream of the test section. Adjustable choking flaps, also located downstream of the test region, are utilized for subsonic Mach number adjustment. A complete description of the test facility is found in Reference 1.

TEST PROCEDURES

The model and associated data acquisition equipment were shipped to VSD by the customer. The model was installed in the tunnel and the recording and readout systems were hooked-up in a location adjacent to the test section. The on-site IBM 1800 Data Acquisition and Reduction System, which is normally employed for all data recording, was used only to acquire and reduce the tunnel flow conditions. The output of the heat-flux gages were read and recorded by the customer representatives during each run. A FM magnetic tape recorder was used to provide a permanent record of the gage outputs.

During a run, the tunnel flow was started and the flow conditions were monitored on a Brush recorder in the control room. When the display showed that the desired tunnel conditions had been obtained, a signal light adjacent to the test section was remotely turned on. This indicated to the customer representatives that flow was established, and they began to read and record the heat-flux gage data. At the same time digital data sampling of tunnel measurements was begun. When the recording was complete or when the air supply had reached a minimum, the tunnel flow was terminated. Table I summarizes the nominal test conditions, the gage data manually recorded, and the comments of the NASA representatives.

The last six runs of the program were devoted to flow visualization studies. Shadowgraphs were forwarded to the customer under Reference 2. Runs 30 and 31 were oil flow runs. Prior to these runs, alternate blue and white dots of thinned artist oil paint were placed in a spanwise direction on the upper surface near the leading edge and also near the 50% chord line. The customer representatives observed the flow patterns generated during the run from a tunnel side window. Unfortunately, the flow process at tunnel shutdown in the supersonic test section is such that the pattern developed during established flow is virtually wiped away, precluding post-run photography to record the flow pattern of interest.

Flow property data were initially sampled by the computer at a rate

TEST PROCEDURES - (Concluded)

of 10 per second. This was reduced to 5 per second for run 4 and the remainder of the test.

DATA REDUCTION

The only data processed during this test were the tunnel flow conditions. These calculations were accomplished using the on-site IBM 1800 computer and the isentropic relations described in Reference 3.

REFERENCES

1. Arnold, J. W., "High Speed Wind Tunnel Facility Handbook," Publication Number AER-ElR-13552-B, dated February 1970.
2. Transmittal of Data No. 2-59710/4L-238, dated 17 July 1974.
3. Baker, T. M., "Data Acquisition, Reduction, and Presentation for Typical Force Tests at the LTV High Speed Wind Tunnel," Report Number 2-59710/OR-50732, dated 20 July 1970.

TABLE I
SUMMARY OF HEAT FLUX GAGE DATA AND COMMENTS
(RECORDED BY NASA TEST REPRESENTATIVES)

CONFIGURATION	MACH NO.	Re/L x 10 ⁻⁶ per ft	α Degrees	Transition	Grit Size	Gage Outputs - Millivolts				COMMENTS
						#1	#2	#3	#4	
1	4.6	13.	0	Free	-	4.5	21.0	15.5	25.5	Transition behind Gage #1
2			10		-	4.9	5.0	5.5	15.0	Transition behind Gage #3
3		18.	0		-	35.0	55.0	40.0	-	Fully Turbulent
4			10.		-	5.5	2.5	25.9	-	Transition between Gages #2 and #3
5		13.	0	Fixed	50	14.5	14.5	14.5	50.0	Fully Turbulent
6			10.			2.5	3.5	4.5	15.5	Transition behind Gage #3
7		18.				5.0	13.0	11.0	22.0	Transition between Gages #1 and #2
8					25	8.0	13.0	13.0	-	
9			20.			9.0	8.0	7.0	-	
10				Free	-	9.0	8.5	-	-	

TABLE II - RUN LOG

RUN NO.	MODEL	MACH NO.	α DEGREES	RN/L x 10 ⁻⁶ per ft	q psf	Transition	DATA ACQUIRED FROM GAGE				REMARKS
							1	2	3	4	
1	Flat Plate - Config. 1	4.6	0	—	—	Free					Tunnel unstated
2				13.5	1288.						No data acquired, scan time too brief
3				13.1	1280.		X	X			
4				13.0	1291.				X	X	
5,6,7	—		10	—	—						Tunnel unstated. Reduced data sampling rate to 5/sec.
8	Flat Plate - Config. 2			13.3	1359.		X				Tunnel unstated in mid-run.
9				13.3	1357.			X	X	X	
10	Flat Plate - Config. 3			16.7	1887.		X				
11				16.5	1873.		X	X			
12	Flat Plate - Config. 4		0	17.6	1988.		X				
13				18.0	1988.		X	X			
14	Flat Plate with transition Strip #1 - Config. 5			13.2	1360.	Fixed	X	X	X	X	#50 Grit, 0.1" wide 1.2" aft of L.E.

TABLE II - (Continued)

RUN NO.	MODEL	MACH NO.	α DEGREES	RN/L x 10 ⁻⁶ per ft.	q psf	Transition	DATA ACQUIRED FROM GAGE				REMARKS
							1	2	3	4	
15	Flat Plate - Config. 6	4.6	10	13.9	1364.	Fixed	X	X	X	X	
16	Flat Plate - Config. 7			18.5	1941.		X	X			
17				18.5	1939.			X	X	X	
18	Flat Plate With Transition Strip #2 - Config. 8			18.3	1938.						#25 Grit, 0.1" wide 1.2" aft of L.E., Grit blew off on start
19				18.2	1940.		X	X			
20				12.1	1295.						Tunnel unstarted
21				18.6	1937.				X	X	Lost #4 Gage this run
22	Flat Plate with With Transition Strip #2 - Config. 9		20	18.5	1936.		X	X			
23				18.4	1940.		X	X			
24	Flat Plate With Transition Strip #2 - Config. 8		10	18.1	1943.		X				
25	Flat Plate - Config. 10		20	18.4	1936.	Free	X	X			
26			0/10	17.9	1943.						Shadowgraphs
27				17.8	1939.						Shadowgraphs

TABLE II - (Concluded)

RUN NO.	MODEL	MACH NO.	α DEGREES	RN/L $\times 10^{-6}$ per ft.	q psf	Transition	DATA ACQUIRED FROM GAGE				REMARKS
							1	2	3	4	
28	Flat Plate- Config. 10	4.6	20	17.7	1945.	Free					Shadowgraph
29			0/10	13.5	1365.						Shadowgraphs
30			10	16.3	1948.						Oil Flow
31				13.6	1362.						Oil Flow

HEAT FLUX GAGE LOCATIONS	
Gage No.	Distance from L.E. (in.)
1	4.00
2	5.50
3	8.50
4	12.00
(on model centerline)	

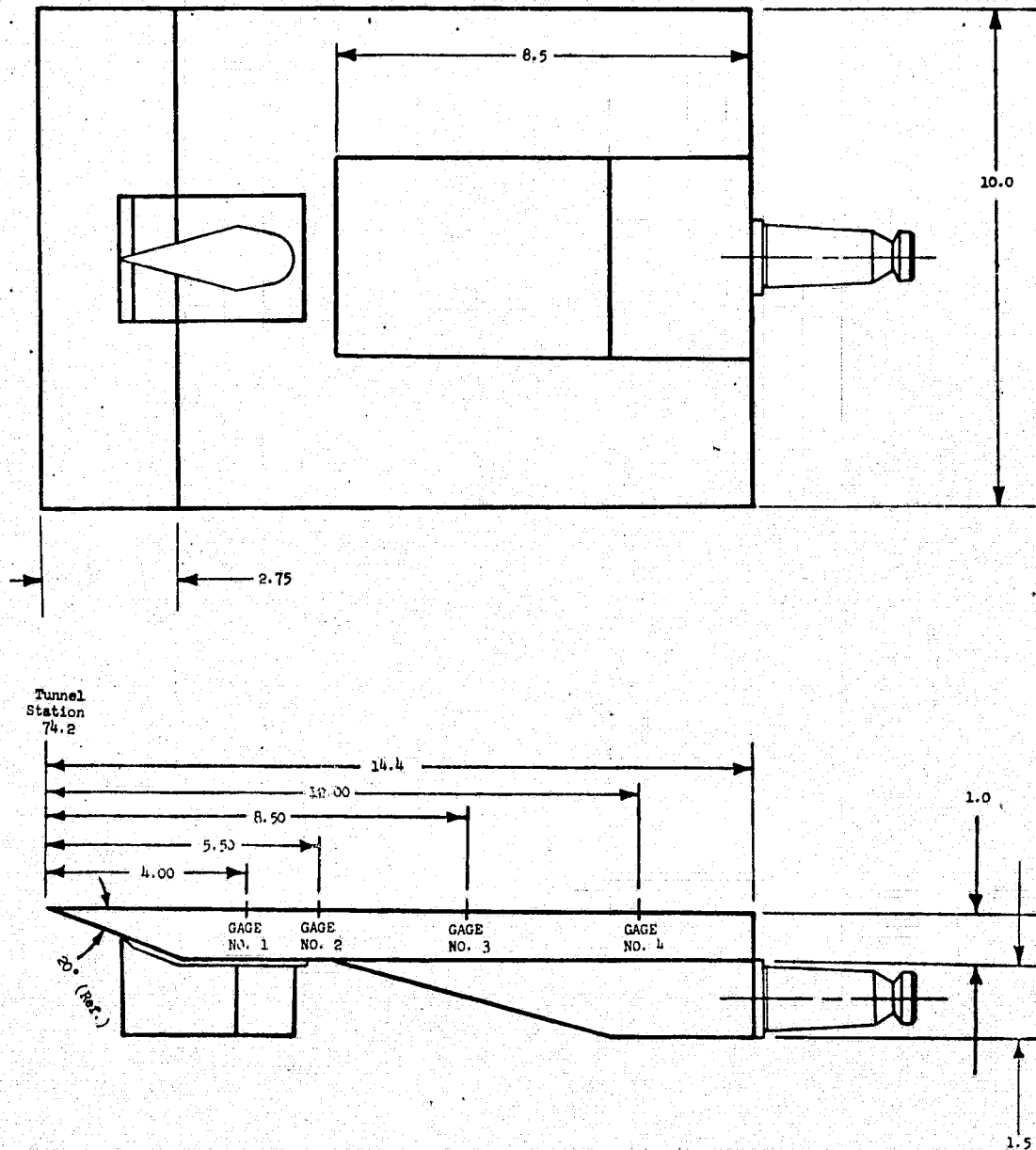


Figure 1. Heat Flux Gage Locations

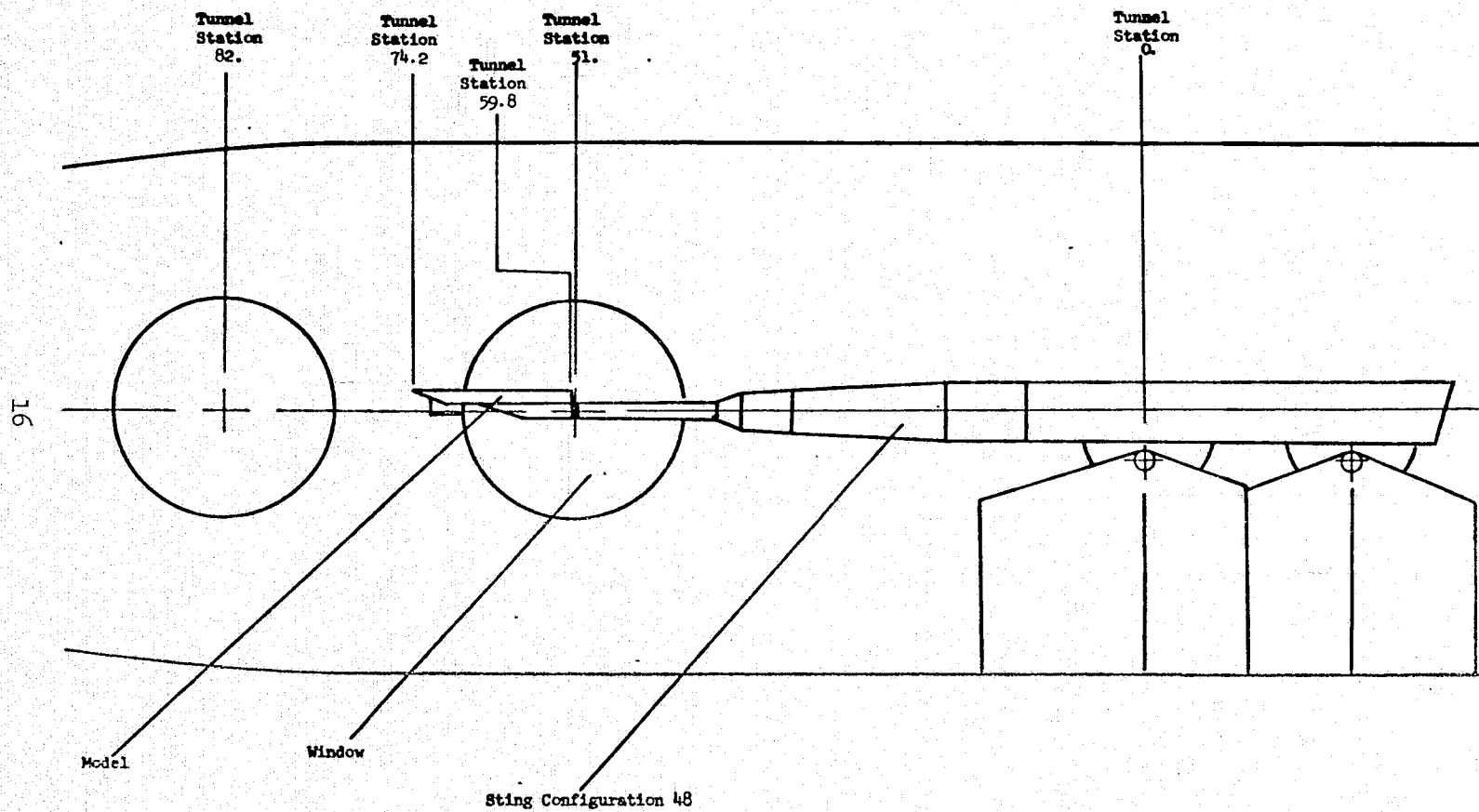


Figure 2. Installation Sketch

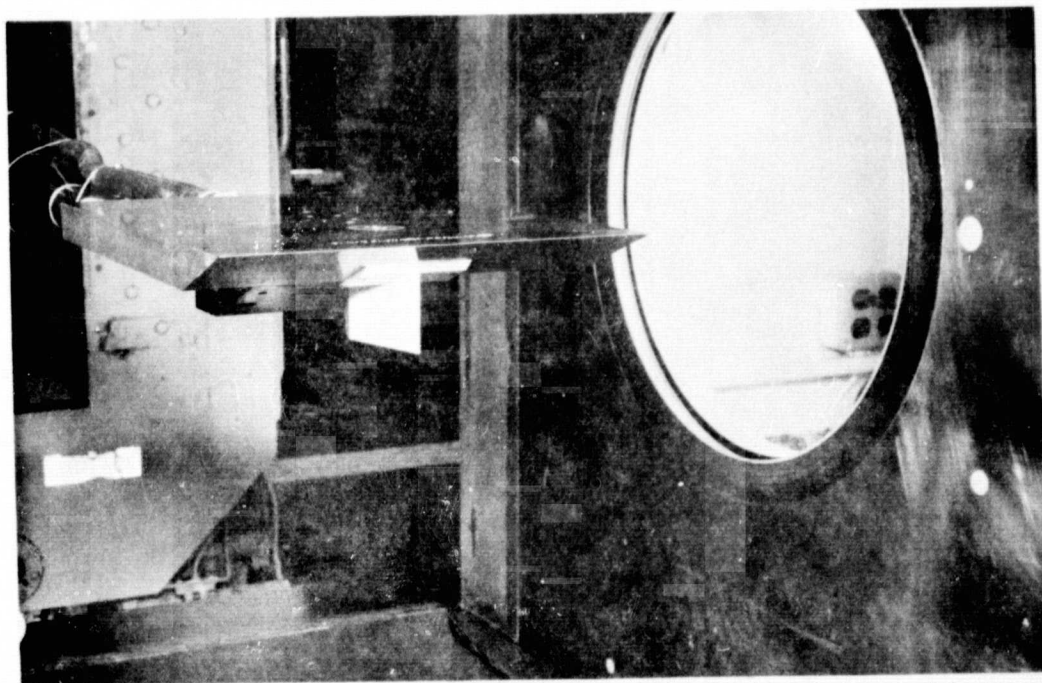
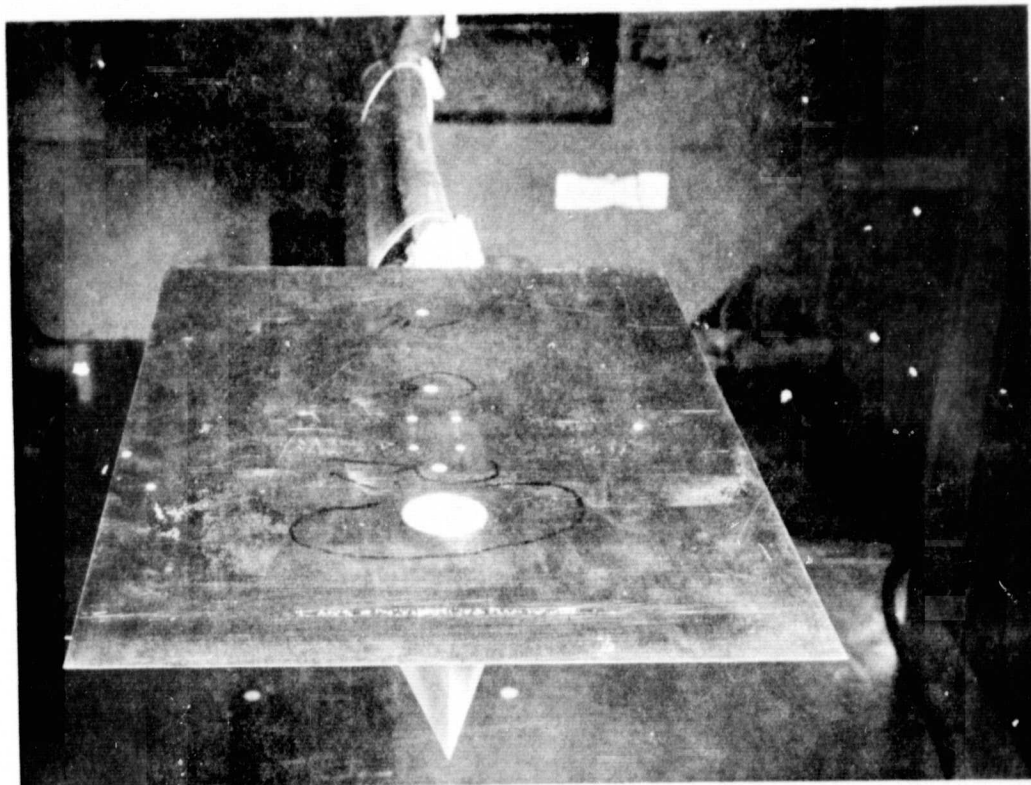


Figure 3. Model Installed in Supersonic Test Section

APPENDIX

TABULATED SOURCE DATA

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 2 DATE 6/17/74 TIME= 3.44

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
1	0.08	194.89	0.60	4.591	2355.45	1037.26	0.1939	13350839.
2	0.08	195.20	0.60	4.591	2354.43	1038.08	0.1943	13391079.
3	0.09	195.53	0.60	4.591	2353.41	1038.97	0.1949	13433333.
4	0.08	195.79	0.60	4.591	2352.53	1039.63	0.1952	13467180.
5	0.09	196.06	0.60	4.591	2351.66	1040.37	0.1957	13503026.
6	0.08	196.31	0.60	4.591	2351.00	1041.04	0.1960	13532843.
7	0.08	196.62	0.60	4.591	2350.49	1041.85	0.1964	13563746.
8	0.08	196.84	0.60	4.591	2350.13	1042.44	0.1967	13586125.
9	0.08	197.09	0.60	4.591	2349.76	1043.10	0.1970	13610447.
10	0.08	197.26	0.60	4.591	2349.40	1043.54	0.1972	13629020.
11	0.08	197.46	0.61	4.591	2349.11	1044.06	0.1975	13648129.
12	0.08	197.65	0.61	4.591	2348.67	1044.57	0.1978	13670077.
13	0.09	197.68	0.61	4.591	2348.38	1044.65	0.1978	13677660.
14	0.09	197.76	0.61	4.591	2347.87	1044.87	0.1980	13693355.
15	0.08	197.82	0.61	4.591	2347.43	1045.01	0.1981	13705719.
16	0.08	197.85	0.61	4.591	2346.99	1045.09	0.1982	13716171.
17	0.08	197.82	0.61	4.591	2346.63	1045.01	0.1983	13721345.
18	0.08	197.85	0.61	4.591	2346.26	1045.09	0.1984	13730394.
19	0.09	197.76	0.61	4.591	2345.97	1044.87	0.1983	13730289.
20	0.08	197.71	0.61	4.591	2345.68	1044.72	0.1983	13732118.
21	0.08	197.60	0.61	4.591	2345.60	1044.43	0.1982	13725808.
22	0.09	197.54	0.61	4.591	2345.24	1044.28	0.1982	13729060.
23	0.08	197.43	0.61	4.591	2345.02	1043.98	0.1981	13725599.
24	0.09	197.29	0.60	4.591	2344.65	1043.62	0.1981	13723043.
25	0.08	197.23	0.60	4.591	2344.07	1043.47	0.1981	13730570.
26	0.08	197.12	0.60	4.591	2343.63	1043.17	0.1981	13731374.
27	0.08	197.09	0.60	4.591	2343.12	1043.10	0.1981	13739431.
28	0.08	196.98	0.60	4.591	2343.05	1042.81	0.1980	13733101.
29	0.08	196.95	0.60	4.591	2343.19	1042.73	0.1980	13728300.
30	0.08	196.95	0.60	4.591	2343.56	1042.73	0.1979	13721166.
31	0.08	196.93	0.60	4.591	2343.78	1042.66	0.1979	13714952.
32	0.09	196.90	0.60	4.591	2344.07	1042.59	0.1978	13707316.
33	0.08	196.82	0.60	4.591	2344.14	1042.36	0.1977	13700077.
34	0.08	196.87	0.60	4.591	2343.92	1042.51	0.1978	13708223.
35	0.08	196.90	0.60	4.591	2343.78	1042.59	0.1978	13713016.
36	0.08	196.84	0.60	4.591	2343.41	1042.44	0.1978	13716264.
37	0.09	196.90	0.60	4.591	2343.27	1042.59	0.1979	13722992.
38	0.08	196.90	0.60	4.591	2342.90	1042.59	0.1980	13730128.
39	0.09	196.95	0.60	4.591	2342.53	1042.73	0.1981	13741160.
40	0.09	196.98	0.60	4.591	2342.17	1042.81	0.1982	13750259.
41	0.08	196.98	0.60	4.591	2341.58	1042.81	0.1983	13761709.
42	0.08	197.04	0.60	4.591	2341.00	1042.95	0.1984	13777079.
43	0.09	197.09	0.60	4.591	2340.34	1043.10	0.1986	13793902.
44	0.08	197.09	0.60	4.591	2339.68	1043.10	0.1987	13806858.

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 2 DATE 6/17/74 TIME= 3.44

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
45	0.08	197.09	0.60	4.591	2339.31	1043.10	0.1988	13814066.
46	0.08	197.09	0.60	4.591	2338.73	1043.10	0.1989	13825604.
47	0.08	197.09	0.60	4.591	2338.36	1043.10	0.1989	13832828.
48	0.08	197.09	0.60	4.591	2337.77	1043.10	0.1990	13844397.
49	0.08	197.12	0.60	4.591	2337.33	1043.17	0.1991	13855036.
50	0.08	197.12	0.60	4.591	2336.82	1043.18	0.1992	13865191.
51	0.08	197.15	0.60	4.591	2336.31	1043.25	0.1993	13877310.
52	0.09	197.12	0.60	4.591	2335.72	1043.17	0.1994	13886973.
53	0.08	197.15	0.60	4.591	2335.50	1043.25	0.1995	13893303.
54	0.08	197.23	0.60	4.591	2335.13	1043.47	0.1996	13906472.
55	0.08	197.23	0.60	4.591	2335.06	1043.47	0.1996	13907927.
56	0.08	197.21	0.60	4.591	2335.06	1043.40	0.1996	13905964.
57	0.08	197.15	0.60	4.591	2335.06	1043.25	0.1996	13902041.
58	0.08	197.23	0.60	4.591	2335.21	1043.47	0.1996	13905016.
59	0.09	197.21	0.60	4.591	2335.21	1043.40	0.1996	13903055.
60	0.08	197.23	0.60	4.591	2335.06	1043.47	0.1996	13907927.
61	0.08	197.15	0.60	4.591	2335.21	1043.25	0.1995	13899130.
62	0.09	197.18	0.60	4.591	2335.13	1043.32	0.1996	13902547.
63	0.08	197.21	0.60	4.591	2335.13	1043.40	0.1996	13904508.
64	0.08	197.21	0.60	4.591	2334.99	1043.40	0.1996	13907423.
65	0.08	197.15	0.60	4.591	2334.84	1043.25	0.1996	13906413.
66	0.08	197.12	0.60	4.591	2334.91	1043.18	0.1996	13902939.
67	0.08	197.12	0.60	4.591	2334.84	1043.18	0.1996	13904446.
68	0.09	197.15	0.60	4.591	2335.06	1043.25	0.1996	13902041.
69	0.08	197.09	0.60	4.591	2335.13	1043.10	0.1995	13896659.
70	0.08	197.15	0.60	4.591	2335.57	1043.25	0.1995	13891850.
71	0.08	197.21	0.60	4.591	2335.79	1043.40	0.1995	13891404.
72	0.09	197.15	0.60	4.591	2336.53	1043.25	0.1993	13872950.
73	0.08	197.12	0.60	4.591	2337.33	1043.17	0.1991	13855036.
74	0.08	197.12	0.60	4.591	2338.29	1043.17	0.1990	13836225.
75	0.08	197.18	0.60	4.591	2339.39	1043.32	0.1989	13818474.
76	0.08	197.21	0.60	4.591	2340.63	1043.40	0.1987	13795940.
77	0.09	197.15	0.60	4.591	2342.17	1043.25	0.1984	13761918.
78	0.08	197.09	0.60	4.591	2343.85	1043.10	0.1980	13725159.
79	0.09	197.15	0.60	4.591	2345.60	1043.25	0.1978	13694867.
80	0.08	197.15	0.60	4.591	2347.21	1043.25	0.1975	13663671.
81	0.08	197.12	0.60	4.591	2348.74	1043.18	0.1972	13632086.
82	0.09	197.15	0.60	4.591	2350.06	1043.25	0.1970	13608667.
83	0.09	197.12	0.60	4.591	2351.30	1043.18	0.1968	13582884.
84	0.08	197.12	0.60	4.591	2352.32	1043.18	0.1966	13563295.
85	0.09	197.09	0.60	4.591	2353.41	1043.10	0.1964	13540436.
86	0.08	197.12	0.60	4.591	2354.06	1043.18	0.1963	13529815.
87	0.08	197.12	0.60	4.591	2354.65	1043.18	0.1962	13518680.
88	0.08	197.15	0.60	4.591	2355.30	1043.25	0.1961	13508091.

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VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 2 DATE 6/17/74 TIME= 3.44

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
89	0.08	197.12	0.60	4.591	2356.03	1043.17	0.1960	13492312.
90	0.08	197.15	0.60	4.591	2356.46	1043.25	0.1960	13485908.
91	0.09	197.23	0.60	4.591	2356.54	1043.47	0.1960	13490234.
92	0.08	197.21	0.60	4.591	2356.25	1043.40	0.1960	13493870.
93	0.09	197.15	0.60	4.591	2355.88	1043.25	0.1960	13496989.
94	0.08	197.15	0.60	4.591	2355.52	1043.25	0.1961	13503929.
95	0.08	197.15	0.60	4.591	2354.94	1043.25	0.1962	13515034.
96	0.09	197.09	0.60	4.591	2354.50	1043.10	0.1962	13519557.
97	0.09	197.12	0.60	4.591	2354.72	1043.18	0.1962	13517293.
98	0.08	197.12	0.60	4.591	2355.30	1043.18	0.1961	13506183.
99	0.08	197.09	0.60	4.591	2356.17	1043.10	0.1959	13487640.
100	0.08	197.12	0.60	4.591	2357.19	1043.18	0.1958	13470173.
101	0.08	197.23	0.60	4.591	2358.14	1043.47	0.1958	13459828.
102	0.08	197.12	0.60	4.591	2359.15	1043.18	0.1955	13432950.
103	0.08	197.15	0.60	4.591	2360.10	1043.25	0.1953	13416984.
104	0.08	197.21	0.60	4.591	2360.53	1043.40	0.1953	13412543.
105	0.08	197.15	0.60	4.591	2360.75	1043.25	0.1952	13404641.
106	0.08	197.12	0.60	4.591	2360.90	1043.18	0.1952	13400011.
107	0.08	197.23	0.60	4.591	2360.90	1043.47	0.1953	13407578.
108	0.08	197.12	0.60	4.591	2361.19	1043.17	0.1951	13394530.
109	0.09	197.12	0.60	4.591	2361.62	1043.18	0.1951	13386322.
110	0.08	197.15	0.60	4.591	2362.06	1043.25	0.1950	13380013.
111	0.09	197.15	0.60	4.591	2362.49	1043.25	0.1950	13371823.
112	0.08	197.12	0.60	4.591	2362.71	1043.17	0.1949	13365840.
113	0.08	197.12	0.60	4.591	2363.15	1043.17	0.1948	13357664.
114	0.08	197.12	0.60	4.591	2363.36	1043.18	0.1948	13353574.
115	0.09	197.09	0.60	4.591	2363.51	1043.10	0.1947	13348968.
116	0.08	197.09	0.60	4.591	2363.80	1043.10	0.1947	13343522.
117	0.09	197.09	0.60	4.591	2363.94	1043.10	0.1947	13340805.
118	0.08	197.12	0.60	4.591	2364.02	1043.18	0.1947	13341329.
119	0.08	197.12	0.60	4.591	2364.16	1043.17	0.1946	13338611.
120	0.09	197.15	0.60	4.591	2364.23	1043.25	0.1947	13339137.
121	0.08	197.12	0.60	4.591	2364.23	1043.18	0.1946	13337251.
122	0.09	197.12	0.60	4.591	2364.31	1043.18	0.1946	13335892.
123	0.09	197.09	0.60	4.591	2364.38	1043.10	0.1946	13332651.
124	0.08	197.09	0.60	4.591	2364.38	1043.10	0.1946	13332651.
125	0.08	197.15	0.60	4.591	2364.45	1043.25	0.1946	13335056.
126	0.09	197.15	0.60	4.591	2364.38	1043.25	0.1946	13336420.
127	0.08	197.15	0.60	4.591	2364.31	1043.25	0.1947	13337777.
128	0.08	197.09	0.60	4.591	2364.31	1043.10	0.1946	13334011.
129	0.09	197.12	0.60	4.591	2364.23	1043.18	0.1946	13337251.
130	0.08	197.15	0.60	4.591	2364.38	1043.25	0.1946	13336420.
131	0.08	197.12	0.60	4.591	2364.52	1043.17	0.1946	13331816.
132	0.09	197.12	0.60	4.591	2364.67	1043.17	0.1946	13329103.

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 2 DATE 6/17/74 TIME= 3.44

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
133	0.08	197.09	0.60	4.591	2364.67	1043.10	0.1945	13327218.
134	0.09	197.09	0.60	4.591	2364.96	1043.10	0.1945	13321790.
135	0.08	197.12	0.60	4.591	2364.96	1043.18	0.1945	13323673.
136	0.08	197.12	0.60	4.591	2364.74	1043.17	0.1946	13327744.
137	0.09	197.15	0.60	4.591	2364.23	1043.25	0.1947	13339137.
138	0.08	197.09	0.60	4.591	2363.51	1043.10	0.1947	13348968.
139	0.09	197.09	0.60	4.591	2362.71	1043.10	0.1949	13363955.
140	0.08	197.09	0.60	4.591	2361.99	1043.10	0.1950	13377596.
141	0.08	197.04	0.60	4.591	2361.26	1042.95	0.1950	13387489.
142	0.09	197.09	0.60	4.591	2361.04	1043.10	0.1951	13395383.
143	0.09	197.12	0.60	4.591	2360.90	1043.18	0.1952	13400011.
144	0.08	197.12	0.60	4.591	2360.90	1043.18	0.1952	13400011.
145	0.09	197.09	0.60	4.591	2360.82	1043.10	0.1952	13399487.
146	0.08	197.12	0.60	4.591	2360.68	1043.17	0.1952	13404121.
147	0.08	197.15	0.60	4.591	2360.75	1043.25	0.1952	13404641.
148	0.08	197.09	0.60	4.591	2360.90	1043.10	0.1952	13398116.
149	0.08	197.09	0.60	4.591	2361.04	1043.10	0.1951	13395383.
150	0.09	197.09	0.60	4.591	2361.26	1043.10	0.1951	13391273.
151	0.08	197.01	0.60	4.591	2361.40	1042.88	0.1950	13382863.
152	0.09	197.09	0.60	4.591	2361.48	1043.10	0.1951	13387173.
153	0.08	197.04	0.60	4.591	2361.48	1042.95	0.1950	13383389.
154	0.08	197.09	0.60	4.591	2361.33	1043.10	0.1951	13389904.
155	0.08	197.09	0.60	4.591	2361.26	1043.10	0.1951	13391273.
156	0.09	197.15	0.60	4.591	2361.26	1043.25	0.1952	13395056.
157	0.08	197.04	0.60	4.591	2361.26	1042.95	0.1950	13387489.
158	0.08	197.09	0.60	4.591	2361.11	1043.10	0.1951	13394014.
159	0.08	197.07	0.60	4.591	2360.97	1043.03	0.1951	13394859.
160	0.08	197.04	0.60	4.591	2360.90	1042.95	0.1951	13394333.
161	0.08	197.04	0.60	4.591	2360.68	1042.95	0.1951	13398443.
162	0.08	197.04	0.60	4.591	2360.32	1042.95	0.1952	13405288.
163	0.08	197.09	0.60	4.591	2359.95	1043.10	0.1953	13415940.
164	0.08	197.09	0.60	4.591	2359.72	1043.10	0.1954	13420062.
165	0.09	197.09	0.60	4.591	2359.52	1043.10	0.1954	13424180.
166	0.08	197.09	0.60	4.591	2359.37	1043.10	0.1954	13426933.
167	0.08	196.98	0.60	4.591	2359.15	1042.81	0.1953	13423464.
168	0.08	197.09	0.60	4.591	2358.79	1043.10	0.1955	13437933.
169	0.08	197.09	0.60	4.591	2358.57	1043.10	0.1955	13442066.
170	0.08	197.07	0.60	4.591	2358.35	1043.03	0.1956	13444299.
171	0.08	197.04	0.60	4.591	2358.21	1042.95	0.1955	13445156.
172	0.09	197.01	0.60	4.591	2358.06	1042.88	0.1955	13446010.
173	0.09	196.98	0.60	4.591	2357.70	1042.81	0.1956	13451003.
174	0.09	197.01	0.60	4.591	2357.56	1042.88	0.1956	13455460.
175	0.08	197.04	0.60	4.591	2357.19	1042.95	0.1957	13464465.
176	0.08	196.98	0.60	4.591	2356.97	1042.81	0.1957	13464807.

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 2 DATE 6/17/74 TIME= 3.44

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
177	0.09	197.04	0.60	4.591	2356.90	1042.95	0.1958	13469994.
178	0.08	196.98	0.60	4.591	2356.68	1042.81	0.1957	13470332.
179	0.09	197.01	0.60	4.591	2356.83	1042.88	0.1958	13469472.
180	0.08	197.07	0.60	4.591	2356.97	1043.03	0.1958	13470516.
181	0.09	196.98	0.60	4.591	2357.19	1042.81	0.1957	13460663.
182	0.09	197.04	0.60	4.591	2357.56	1042.95	0.1957	13457563.
183	0.09	196.98	0.60	4.591	2357.99	1042.81	0.1955	13445486.
184	0.09	197.09	0.60	4.591	2358.21	1043.10	0.1956	13448955.
185	0.08	197.04	0.60	4.591	2358.50	1042.95	0.1955	13439643.
186	0.09	197.07	0.60	4.591	2358.50	1043.03	0.1955	13441542.
187	0.09	197.09	0.60	4.591	2358.65	1043.10	0.1955	13440691.
188	0.09	197.09	0.60	4.591	2358.72	1043.10	0.1955	13439310.
189	0.08	197.01	0.60	4.591	2359.01	1042.88	0.1954	13428117.
190	0.08	197.09	0.60	4.591	2359.01	1043.10	0.1955	13433809.
191	0.09	197.01	0.60	4.591	2359.30	1042.88	0.1953	13422614.
192	0.08	197.07	0.60	4.591	2359.30	1043.03	0.1954	13426409.
193	0.08	197.04	0.60	4.591	2359.30	1042.95	0.1954	13424510.
194	0.08	197.04	0.60	4.591	2359.30	1042.95	0.1954	13424510.
195	0.09	197.09	0.60	4.591	2359.30	1043.10	0.1954	13428304.
196	0.08	197.01	0.60	4.591	2359.01	1042.88	0.1954	13428117.
197	0.09	197.09	0.60	4.591	2358.86	1043.10	0.1955	13436559.
198	0.09	197.09	0.60	4.591	2358.72	1043.10	0.1955	13439310.
199	0.08	197.09	0.60	4.591	2358.72	1043.10	0.1955	13439310.
200	0.09	197.01	0.60	4.591	2358.72	1042.88	0.1954	13433614.
201	0.08	197.09	0.60	4.591	2358.57	1043.10	0.1955	13442066.
202	0.09	196.98	0.60	4.591	2358.57	1042.81	0.1954	13434472.
203	0.08	196.98	0.60	4.591	2358.35	1042.81	0.1955	13438599.
204	0.08	196.90	0.60	4.591	2358.14	1042.59	0.1954	13437032.
205	0.08	196.95	0.60	4.591	2357.92	1042.73	0.1955	13444966.
206	0.08	196.95	0.60	4.591	2357.56	1042.73	0.1956	13451860.
207	0.09	196.98	0.60	4.591	2357.19	1042.81	0.1957	13460663.
208	0.08	196.95	0.60	4.591	2356.83	1042.73	0.1957	13465666.
209	0.09	196.98	0.60	4.591	2356.32	1042.81	0.1958	13477246.
210	0.09	196.95	0.60	4.591	2356.10	1042.73	0.1958	13479496.
211	0.08	196.95	0.60	4.591	2355.74	1042.73	0.1959	13486420.
212	0.08	196.95	0.60	4.591	2355.30	1042.73	0.1959	13494739.
213	0.08	196.95	0.60	4.591	2355.08	1042.73	0.1960	13498898.
214	0.09	197.04	0.60	4.591	2354.65	1042.95	0.1961	13512953.
215	0.08	197.07	0.60	4.591	2354.50	1043.03	0.1962	13517646.
216	0.08	197.04	0.60	4.591	2354.43	1042.95	0.1962	13517126.
217	0.08	197.04	0.60	4.591	2354.28	1042.95	0.1962	13519906.
218	0.09	197.09	0.60	4.591	2354.35	1043.10	0.1962	13522335.
219	0.09	197.04	0.60	4.591	2354.50	1042.95	0.1962	13515737.
220	0.08	197.09	0.60	4.591	2354.65	1043.10	0.1962	13516773.

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 2 DATE 6/17/74 TIME= 3.44

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
221	0.08	197.01	0.60	4.591	2355.30	1042.88	0.1960	13498553.
222	0.08	197.04	0.60	4.591	2355.66	1042.95	0.1960	13493524.
223	0.08	197.04	0.60	4.591	2356.10	1042.95	0.1959	13485211.
224	0.08	196.98	0.60	4.591	2356.46	1042.81	0.1958	13474483.
225	0.09	196.98	0.60	4.591	2356.83	1042.81	0.1957	13467571.
226	0.08	196.90	0.60	4.591	2356.90	1042.59	0.1956	13460479.
227	0.08	196.90	0.60	4.591	2356.97	1042.59	0.1956	13459099.
228	0.08	196.84	0.60	4.591	2356.83	1042.44	0.1956	13458055.
229	0.09	196.82	0.60	4.591	2356.90	1042.36	0.1955	13454771.
230	0.09	196.82	0.60	4.591	2356.97	1042.36	0.1955	13453388.
231	0.09	196.76	0.60	4.591	2357.05	1042.22	0.1955	13448198.
232	0.09	196.82	0.60	4.591	2357.12	1042.36	0.1955	13450626.
233	0.08	196.84	0.60	4.591	2357.05	1042.44	0.1955	13453910.
234	0.08	196.84	0.60	4.591	2357.05	1042.44	0.1955	13453910.
235	0.09	196.82	0.60	4.591	2356.68	1042.36	0.1956	13458911.
236	0.09	196.87	0.60	4.591	2356.54	1042.51	0.1957	13465485.
237	0.09	196.84	0.60	4.591	2356.46	1042.44	0.1956	13464962.
238	0.09	196.90	0.60	4.591	2356.32	1042.59	0.1957	13471532.
239	0.08	196.95	0.60	4.591	2356.39	1042.73	0.1958	13473963.
240	0.08	196.95	0.60	4.591	2356.46	1042.73	0.1958	13472578.
241	0.08	196.95	0.60	4.591	2356.46	1042.73	0.1958	13472578.
242	0.09	196.95	0.60	4.591	2356.25	1042.73	0.1958	13476726.
243	0.08	197.04	0.60	4.591	2355.74	1042.95	0.1960	13492137.
244	0.09	196.95	0.60	4.591	2355.37	1042.73	0.1959	13493354.
245	0.08	196.95	0.60	4.591	2354.86	1042.73	0.1960	13503064.
246	0.09	196.95	0.60	4.591	2354.57	1042.73	0.1961	13508616.
247	0.09	196.93	0.60	4.591	2354.28	1042.66	0.1961	13512264.
248	0.08	196.90	0.60	4.591	2354.06	1042.59	0.1961	13514530.
249	0.09	196.90	0.60	4.591	2354.14	1042.59	0.1961	13513139.
250	0.08	196.82	0.60	4.591	2354.21	1042.36	0.1960	13506011.
251	0.08	196.82	0.60	4.591	2354.43	1042.36	0.1960	13501849.
252	0.08	196.76	0.60	4.591	2354.35	1042.22	0.1959	13499414.
253	0.08	196.82	0.60	4.591	2354.14	1042.36	0.1960	13507404.
254	0.08	196.76	0.60	4.591	2353.77	1042.22	0.1960	13510528.
255	0.08	196.76	0.60	4.591	2353.48	1042.22	0.1961	13516094.
256	0.08	196.76	0.60	4.591	2353.26	1042.22	0.1961	13520273.
257	0.09	196.76	0.60	4.591	2353.04	1042.22	0.1961	13524451.
258	0.08	196.82	0.60	4.591	2352.90	1042.36	0.1962	13531067.
259	0.09	196.84	0.60	4.591	2352.90	1042.44	0.1962	13532982.
260	0.08	196.82	0.60	4.591	2352.75	1042.36	0.1962	13533855.
261	0.07	196.84	0.60	4.591	2352.68	1042.44	0.1963	13537163.
262	0.08	196.82	0.60	4.591	2352.75	1042.36	0.1962	13533855.
263	0.08	196.84	0.60	4.591	2352.90	1042.44	0.1962	13532982.
264	0.09	196.90	0.60	4.591	2353.26	1042.59	0.1962	13529839.

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 2 DATE 6/17/74 TIME= 3.44

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
265	0.08	196.93	0.60	4.591	2353.41	1042.66	0.1962	13528960.
266	0.09	196.87	0.60	4.591	2353.77	1042.51	0.1961	13518178.
267	0.08	196.90	0.60	4.591	2353.92	1042.59	0.1961	13517311.
268	0.08	196.84	0.60	4.591	2354.14	1042.44	0.1960	13509319.
269	0.09	196.82	0.60	4.591	2354.21	1042.36	0.1960	13506011.
270	0.08	196.82	0.60	4.591	2354.14	1042.36	0.1960	13507404.
271	0.09	196.82	0.60	4.591	2354.06	1042.36	0.1960	13508797.
272	0.08	196.82	0.60	4.591	2354.06	1042.36	0.1960	13508797.
273	0.08	196.82	0.60	4.591	2354.06	1042.36	0.1960	13508797.
274	0.08	196.82	0.60	4.591	2353.92	1042.36	0.1960	13511575.
275	0.08	196.82	0.60	4.591	2353.92	1042.36	0.1960	13511575.
276	0.09	196.82	0.60	4.591	2354.06	1042.36	0.1960	13508797.
277	0.09	196.82	0.60	4.591	2354.21	1042.36	0.1960	13506011.
278	0.09	196.82	0.60	4.591	2354.43	1042.36	0.1960	13501849.
279	0.09	196.82	0.60	4.591	2354.35	1042.36	0.1960	13503233.
280	0.09	196.76	0.60	4.591	2354.50	1042.22	0.1959	13496640.
281	0.08	196.70	0.60	4.591	2354.50	1042.07	0.1958	13492820.
282	0.08	196.76	0.60	4.591	2354.43	1042.22	0.1959	13498029.
283	0.09	196.73	0.60	4.591	2354.50	1042.14	0.1959	13494731.
284	0.09	196.65	0.60	4.591	2354.43	1041.92	0.1958	13490389.
285	0.09	196.65	0.60	4.591	2354.14	1041.92	0.1958	13495943.
286	0.08	196.62	0.60	4.591	2353.92	1041.85	0.1958	13498196.
287	0.09	196.62	0.60	4.591	2353.41	1041.85	0.1959	13507924.
288	0.08	196.68	0.60	4.591	2352.83	1042.00	0.1961	13522887.
289	0.08	196.65	0.60	4.591	2352.32	1041.92	0.1961	13530728.
290	0.08	196.65	0.60	4.591	2352.17	1041.92	0.1962	13533518.
291	0.08	196.65	0.60	4.591	2352.10	1041.92	0.1962	13534915.
292	0.08	196.65	0.60	4.591	2352.02	1041.92	0.1962	13536312.
293	0.08	196.62	0.60	4.591	2352.02	1041.85	0.1962	13534397.
294	0.08	196.65	0.60	4.591	2352.17	1041.92	0.1962	13533518.
295	0.08	196.65	0.60	4.591	2352.24	1041.92	0.1962	13532123.
296	0.08	196.59	0.60	4.591	2352.24	1041.77	0.1961	13528291.
297	0.08	196.56	0.60	4.591	2352.24	1041.70	0.1961	13526374.
298	0.08	196.59	0.60	4.591	2352.32	1041.77	0.1961	13526898.
299	0.08	196.68	0.60	4.591	2352.32	1042.00	0.1962	13532645.
300	0.08	196.65	0.60	4.591	2352.24	1041.92	0.1962	13532123.
301	0.08	196.68	0.60	4.591	2352.17	1042.00	0.1962	13535433.
302	0.08	196.73	0.60	4.591	2352.17	1042.14	0.1962	13539267.
303	0.08	196.73	0.60	4.591	2352.02	1042.14	0.1963	13542061.
304	0.09	196.68	0.60	4.591	2352.02	1042.00	0.1962	13538227.
305	0.09	196.68	0.60	4.591	2352.17	1042.00	0.1962	13535433.
306	0.08	196.79	0.60	4.591	2352.10	1042.29	0.1963	13544496.
307	0.08	196.68	0.60	4.591	2352.02	1042.00	0.1962	13538227.
308	0.08	196.73	0.60	4.591	2351.88	1042.14	0.1963	13544851.

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 2 DATE 6/17/74 TIME= 3.44

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
309	0.09	196.65	0.60	4.591	2351.81	1041.92	0.1962	13540495.
310	0.09	196.62	0.60	4.591	2351.59	1041.85	0.1962	13542770.
311	0.08	196.65	0.60	4.591	2351.59	1041.92	0.1963	13544687.
312	0.08	196.62	0.60	4.591	2351.44	1041.85	0.1963	13545566.
313	0.08	196.54	0.60	4.591	2351.51	1041.63	0.1962	13538416.
314	0.08	196.54	0.60	4.591	2351.51	1041.63	0.1962	13538416.
315	0.08	196.54	0.60	4.591	2351.66	1041.63	0.1961	13535623.
316	0.08	196.51	0.60	4.591	2351.73	1041.55	0.1961	13532303.
317	0.08	196.48	0.60	4.591	2351.66	1041.48	0.1961	13531789.
318	0.08	196.48	0.60	4.591	2351.73	1041.48	0.1961	13530386.
319	0.09	196.37	0.60	4.591	2351.81	1041.18	0.1959	13521327.
320	0.08	196.37	0.60	4.591	2351.66	1041.18	0.1960	13524119.
321	0.09	196.43	0.60	4.591	2351.73	1041.33	0.1960	13526554.
322	0.08	196.34	0.60	4.591	2351.51	1041.11	0.1960	13524993.
323	0.09	196.43	0.60	4.591	2351.59	1041.33	0.1960	13529348.
324	0.08	196.37	0.60	4.591	2351.44	1041.18	0.1960	13528305.
325	0.08	196.37	0.60	4.591	2351.30	1041.18	0.1960	13531091.
326	0.09	196.37	0.60	4.591	2351.30	1041.18	0.1960	13531091.
327	0.08	196.29	0.60	4.591	2351.30	1040.96	0.1960	13525336.
328	0.08	196.29	0.60	4.591	2351.22	1040.96	0.1960	13526735.
329	0.08	196.29	0.60	4.591	2351.22	1040.96	0.1960	13526735.
330	0.08	196.29	0.60	4.591	2351.08	1040.96	0.1960	13529525.
331	0.09	196.29	0.60	4.591	2351.08	1040.96	0.1960	13529525.
332	0.08	196.29	0.60	4.591	2351.00	1040.96	0.1960	13530922.
333	0.09	196.23	0.60	4.591	2351.00	1040.82	0.1959	13527084.
334	0.08	196.20	0.60	4.591	2350.86	1040.74	0.1959	13527961.
335	0.08	196.18	0.60	4.591	2350.86	1040.67	0.1959	13526040.
336	0.09	196.20	0.60	4.591	2350.79	1040.74	0.1960	13529356.
337	0.08	196.15	0.60	4.591	2350.71	1040.59	0.1959	13526908.
338	0.08	196.15	0.60	4.591	2350.71	1040.59	0.1959	13526908.
339	0.08	196.15	0.60	4.591	2350.64	1040.59	0.1959	13528307.
340	0.08	196.06	0.60	4.591	2350.64	1040.37	0.1958	13522546.
341	0.08	196.15	0.60	4.591	2350.64	1040.59	0.1959	13528307.
342	0.08	196.04	0.60	4.591	2350.49	1040.30	0.1958	13523415.
343	0.08	196.01	0.60	4.591	2350.28	1040.22	0.1958	13525689.
344	0.09	195.98	0.60	4.591	2350.20	1040.15	0.1958	13525165.
345	0.08	195.92	0.60	4.591	2349.84	1040.00	0.1958	13528303.
346	0.08	195.92	0.60	4.591	2349.47	1040.00	0.1959	13535296.
347	0.08	195.87	0.60	4.591	2349.33	1039.85	0.1959	13534244.
348	0.09	195.87	0.60	4.591	2348.82	1039.85	0.1959	13544048.
349	0.08	195.87	0.60	4.591	2348.38	1039.85	0.1960	13552454.
350	0.08	195.84	0.60	4.591	2347.65	1039.78	0.1961	13564559.
351	0.08	195.76	0.60	4.591	2346.92	1039.56	0.1962	13572825.
352	0.08	195.73	0.60	4.591	2346.33	1039.49	0.1962	13582150.

ORIGINAL PAGE IS
 OF POOR QUALITY

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 2 DATE 6/17/74 TIME= 3.44

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
353	0.08	195.67	0.60	4.591	2345.75	1039.34	0.1963	13589556.
354	0.08	195.67	0.60	4.591	2345.39	1039.34	0.1963	13596607.
355	0.08	195.59	0.60	4.591	2344.95	1039.12	0.1963	13599268.
356	0.09	195.59	0.60	4.591	2344.65	1039.12	0.1964	13604920.
357	0.08	195.51	0.60	4.591	2344.58	1038.89	0.1963	13600518.
358	0.08	195.45	0.60	4.591	2344.43	1038.75	0.1963	13599471.
359	0.08	195.37	0.60	4.591	2344.51	1038.52	0.1962	13592247.
360	0.08	195.34	0.60	4.591	2344.58	1038.45	0.1961	13589901.
361	0.09	195.26	0.60	4.591	2344.87	1038.23	0.1960	13577449.
362	0.08	195.23	0.60	4.591	2345.02	1038.15	0.1959	13572696.
363	0.08	195.12	0.60	4.591	2345.17	1037.86	0.1958	13562134.
364	0.08	195.15	0.60	4.591	2345.39	1037.93	0.1958	13559854.
365	0.08	195.12	0.60	4.591	2345.46	1037.86	0.1958	13556514.
366	0.08	195.09	0.60	4.591	2345.46	1037.78	0.1957	13554581.
367	0.08	195.06	0.60	4.591	2345.53	1037.71	0.1957	13551239.
368	0.09	194.98	0.60	4.591	2345.60	1037.49	0.1956	13544028.
369	0.08	194.92	0.60	4.591	2345.60	1037.34	0.1955	13540158.
370	0.08	194.92	0.60	4.591	2345.46	1037.34	0.1956	13542972.
371	0.08	194.73	0.60	4.591	2345.39	1036.82	0.1954	13530835.
372	0.08	194.67	0.60	4.591	2345.46	1036.67	0.1953	13525564.
373	0.08	194.62	0.60	4.591	2345.39	1036.52	0.1953	13523099.
374	0.08	194.50	0.60	4.591	2345.24	1036.23	0.1952	13518162.
375	0.08	194.42	0.60	4.591	2345.24	1036.01	0.1951	13512359.
376	0.07	194.28	0.60	4.591	2345.17	1035.63	0.1950	13504082.
377	0.08	194.14	0.59	4.591	2345.02	1035.26	0.1948	13497212.
378	0.08	194.03	0.59	4.591	2344.95	1034.97	0.1947	13490869.
379	0.09	193.89	0.59	4.591	2344.95	1034.59	0.1946	13481195.
380	0.09	193.75	0.59	4.591	2344.80	1034.22	0.1945	13474312.
381	0.08	193.56	0.59	4.591	2344.51	1033.70	0.1943	13466351.
382	0.09	193.42	0.59	4.591	2344.36	1033.33	0.1942	13459460.
383	0.09	193.25	0.59	4.591	2344.22	1032.89	0.1941	13450637.
384	0.08	193.08	0.59	4.591	2343.92	1032.44	0.1940	13444591.
385	0.08	192.89	0.59	4.591	2343.63	1031.92	0.1938	13436607.
386	0.09	192.67	0.59	4.591	2343.41	1031.32	0.1936	13425280.
387	0.08	192.50	0.59	4.591	2343.12	1030.87	0.1935	13419221.
388	0.08	192.33	0.59	4.591	2342.83	1030.43	0.1934	13413154.
389	0.09	192.17	0.59	4.591	2342.61	1029.98	0.1933	13405691.
390	0.09	191.89	0.59	4.591	2342.31	1029.23	0.1930	13391837.
391	0.08	191.67	0.59	4.591	2341.80	1028.64	0.1929	13386048.
392	0.08	191.44	0.59	4.591	2341.22	1028.04	0.1928	13381638.
393	0.08	191.14	0.59	4.591	2340.70	1027.21	0.1925	13369976.
394	0.08	190.86	0.58	4.591	2340.12	1026.47	0.1924	13361653.
395	0.08	190.50	0.58	4.591	2339.53	1025.49	0.1921	13347442.
396	0.08	190.11	0.58	4.591	2339.02	1024.44	0.1918	13329871.

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 2 DATE 6/17/74 TIME= 3.44

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
397	0.08	189.74	0.58	4.591	2338.51	1023.47	0.1915	13314225.
398	0.08	189.41	0.58	4.591	2337.99	1022.57	0.1912	13300506.
399	0.09	189.05	0.58	4.591	2337.33	1021.59	0.1910	13287587.
400	0.08	188.66	0.58	4.591	2336.67	1020.54	0.1907	13272684.
401	0.08	188.41	0.58	4.591	2335.94	1019.86	0.1906	13268941.
402	0.08	187.99	0.58	4.591	2335.21	1018.73	0.1903	13253406.
403	0.08	187.66	0.57	4.591	2334.47	1017.82	0.1900	13243726.
404	0.08	187.27	0.57	4.591	2333.67	1016.76	0.1898	13231482.
405	0.08	186.85	0.57	4.591	2332.86	1015.63	0.1895	13217227.
406	0.08	186.51	0.57	4.591	2332.27	1014.72	0.1892	13204695.
407	0.08	186.15	0.57	4.591	2331.54	1013.74	0.1890	13192929.
408	0.08	185.87	0.57	4.591	2330.87	1012.98	0.1888	13185677.
409	0.08	185.54	0.57	4.591	2330.21	1012.07	0.1886	13174457.
410	0.09	185.12	0.57	4.591	2329.55	1010.93	0.1883	13157271.

PS 0.606 PO196.261 Q 1288.PSF MACH 4.590
 TO 569. RN/L 13521087. PHI 0.0

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 3 DATE 6/17/74 TIME= 3.62

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
1	0.08	195.14	0.60	4.591	2399.56	1037.90	0.1870	12569089.
2	0.08	195.25	0.60	4.591	2397.49	1038.20	0.1875	12612277.
3	0.08	195.50	0.60	4.591	2395.77	1038.87	0.1880	12658436.
4	0.08	195.66	0.60	4.591	2394.12	1039.31	0.1884	12698118.
5	0.08	195.86	0.60	4.591	2392.62	1039.83	0.1888	12737245.
6	0.09	196.03	0.60	4.591	2391.19	1040.27	0.1892	12773428.
7	0.08	196.25	0.60	4.591	2389.68	1040.86	0.1897	12814658.
8	0.08	196.50	0.60	4.591	2388.39	1041.53	0.1901	12854020.
9	0.08	196.75	0.60	4.591	2386.88	1042.19	0.1906	12897368.
10	0.08	196.89	0.60	4.591	2385.59	1042.56	0.1909	12929695.
11	0.08	197.08	0.60	4.591	2384.23	1043.07	0.1913	12967081.
12	0.08	197.14	0.60	4.591	2383.07	1043.22	0.1916	12991520.
13	0.08	197.36	0.60	4.591	2382.07	1043.81	0.1920	13024437.
14	0.08	197.50	0.61	4.591	2380.92	1044.18	0.1923	13054542.
15	0.09	197.59	0.61	4.591	2379.91	1044.40	0.1925	13078417.
16	0.08	197.67	0.61	4.591	2379.05	1044.62	0.1928	13099719.
17	0.08	197.64	0.61	4.591	2378.18	1044.55	0.1929	13113684.
18	0.09	197.64	0.61	4.591	2377.17	1044.55	0.1930	13132165.
19	0.08	197.67	0.61	4.591	2376.45	1044.62	0.1932	13147240.
20	0.08	197.64	0.61	4.591	2375.73	1044.55	0.1933	13158641.
21	0.09	197.64	0.61	4.591	2374.94	1044.55	0.1934	13173241.
22	0.09	197.56	0.61	4.591	2374.36	1044.33	0.1934	13178305.
23	0.08	197.45	0.61	4.591	2373.56	1044.03	0.1934	13185507.
24	0.09	197.42	0.61	4.591	2372.77	1043.96	0.1935	13198307.
25	0.08	197.36	0.60	4.591	2371.90	1043.81	0.1936	13210601.
26	0.08	197.28	0.60	4.591	2371.18	1043.59	0.1937	13218380.
27	0.08	197.20	0.60	4.591	2370.39	1043.37	0.1937	13227509.
28	0.08	197.08	0.60	4.591	2369.66	1043.07	0.1937	13233442.
29	0.08	197.08	0.60	4.591	2368.72	1043.07	0.1939	13250898.
30	0.09	196.97	0.60	4.591	2368.14	1042.78	0.1938	13254166.
31	0.08	196.94	0.60	4.591	2367.49	1042.71	0.1939	13264412.
32	0.09	196.89	0.60	4.591	2366.77	1042.56	0.1940	13274144.
33	0.08	196.89	0.60	4.591	2366.26	1042.56	0.1941	13283590.
34	0.09	196.83	0.60	4.591	2365.54	1042.41	0.1941	13293352.
35	0.08	196.86	0.60	4.591	2364.96	1042.49	0.1943	13306063.
36	0.09	196.81	0.60	4.591	2364.23	1042.34	0.1943	13315854.
37	0.09	196.83	0.60	4.591	2363.51	1042.41	0.1945	13331322.
38	0.08	196.83	0.60	4.591	2362.86	1042.41	0.1946	13343562.
39	0.09	196.89	0.60	4.591	2362.13	1042.56	0.1948	13360964.
40	0.08	196.94	0.60	4.591	2361.40	1042.71	0.1949	13378402.
41	0.08	196.94	0.60	4.591	2360.53	1042.71	0.1951	13394823.
42	0.08	196.94	0.60	4.591	2359.81	1042.71	0.1952	13408532.
43	0.08	196.97	0.60	4.591	2359.15	1042.78	0.1953	13422785.
44	0.09	197.03	0.60	4.591	2358.65	1042.93	0.1955	13436212.

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 3 DATE 6/17/74 TIME= 3.62

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
45	0.09	197.11	0.60	4.591	2358.28	1043.15	0.1956	13448792.
46	0.09	197.08	0.60	4.591	2357.92	1043.07	0.1956	13453783.
47	0.08	197.08	0.60	4.591	2357.56	1043.07	0.1957	13460683.
48	0.08	197.08	0.60	4.591	2357.19	1043.07	0.1958	13467587.
49	0.08	197.11	0.60	4.591	2356.68	1043.15	0.1959	13479169.
50	0.09	197.08	0.60	4.591	2355.96	1043.07	0.1960	13491107.
51	0.08	197.11	0.60	4.591	2355.23	1043.15	0.1961	13506388.
52	0.08	197.08	0.60	4.591	2354.43	1043.07	0.1962	13520261.
53	0.09	197.08	0.60	4.591	2353.63	1043.07	0.1964	13535570.
54	0.08	197.08	0.60	4.591	2352.97	1043.07	0.1965	13548118.
55	0.09	197.08	0.60	4.591	2352.32	1043.07	0.1966	13560690.
56	0.08	197.11	0.60	4.591	2351.51	1043.15	0.1967	13578000.
57	0.08	197.11	0.60	4.591	2351.00	1043.15	0.1968	13587806.
58	0.09	197.14	0.60	4.591	2350.20	1043.22	0.1970	13605166.
59	0.09	197.17	0.60	4.591	2349.40	1043.30	0.1971	13622558.
60	0.09	197.11	0.60	4.591	2348.60	1043.15	0.1972	13634213.
61	0.08	197.14	0.60	4.591	2347.80	1043.22	0.1974	13651669.
62	0.09	197.20	0.60	4.591	2347.21	1043.37	0.1975	13666834.
63	0.09	197.14	0.60	4.591	2346.41	1043.22	0.1976	13678561.
64	0.09	197.11	0.60	4.591	2345.82	1043.15	0.1977	13687985.
65	0.09	197.11	0.60	4.591	2345.39	1043.15	0.1978	13696505.
66	0.08	197.08	0.60	4.591	2345.02	1043.07	0.1978	13701676.
67	0.08	197.08	0.60	4.591	2344.95	1043.07	0.1978	13703097.
68	0.08	197.08	0.60	4.591	2345.09	1043.07	0.1978	13700257.
69	0.09	197.08	0.60	4.591	2345.09	1043.07	0.1978	13700257.
70	0.08	197.08	0.60	4.591	2345.24	1043.07	0.1978	13697406.
71	0.09	197.08	0.60	4.591	2345.39	1043.07	0.1977	13694566.
72	0.09	197.03	0.60	4.591	2345.75	1042.93	0.1976	13683599.
73	0.08	197.03	0.60	4.591	2345.75	1042.93	0.1976	13683599.
74	0.09	197.08	0.60	4.591	2346.12	1043.07	0.1976	13680371.
75	0.09	197.03	0.60	4.591	2346.48	1042.93	0.1975	13669420.
76	0.09	197.08	0.60	4.591	2346.77	1043.07	0.1975	13667610.
77	0.09	197.08	0.60	4.591	2347.21	1043.07	0.1974	13659119.
78	0.09	197.08	0.60	4.591	2347.65	1043.07	0.1974	13650637.
79	0.09	197.08	0.60	4.591	2348.09	1043.07	0.1973	13642163.
80	0.09	197.08	0.60	4.591	2348.45	1043.07	0.1972	13635102.
81	0.08	197.14	0.60	4.591	2348.82	1043.22	0.1972	13631909.
82	0.08	197.08	0.60	4.591	2349.18	1043.07	0.1971	13621014.
83	0.08	197.11	0.60	4.591	2349.40	1043.15	0.1971	13618714.
84	0.08	197.14	0.60	4.591	2349.84	1043.22	0.1970	13612195.
85	0.09	197.11	0.60	4.591	2350.79	1043.15	0.1969	13592017.
86	0.08	197.14	0.60	4.591	2351.73	1043.22	0.1967	13575708.
87	0.09	197.20	0.60	4.591	2352.90	1043.37	0.1966	13557173.
88	0.08	197.17	0.60	4.591	2353.99	1043.30	0.1964	13534341.

ORIGINAL PAGE IS
 OF POOR QUALITY

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 3 DATE 6/17/74 TIME= 3.62

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
89	0.08	197.11	0.60	4.591	2355.08	1043.15	0.1961	13509660.
90	0.08	197.11	0.60	4.591	2355.88	1043.15	0.1960	13494398.
91	0.08	197.11	0.60	4.591	2356.54	1043.15	0.1959	13481937.
92	0.08	197.08	0.60	4.591	2357.12	1043.07	0.1958	13468968.
93	0.08	197.08	0.60	4.591	2357.70	1043.07	0.1957	13457921.
94	0.08	197.08	0.60	4.591	2358.06	1043.07	0.1956	13451026.
95	0.09	197.08	0.60	4.591	2358.14	1043.07	0.1956	13449649.
96	0.09	197.03	0.60	4.591	2357.99	1042.93	0.1956	13448605.
97	0.08	197.03	0.60	4.591	2357.63	1042.93	0.1956	13455503.
98	0.08	197.03	0.60	4.591	2357.34	1042.93	0.1957	13461024.
99	0.08	197.03	0.60	4.591	2357.19	1042.93	0.1957	13463785.
100	0.08	197.03	0.60	4.591	2357.05	1042.93	0.1957	13466545.
101	0.08	197.08	0.60	4.591	2357.70	1043.07	0.1957	13457921.
102	0.08	197.06	0.60	4.591	2359.01	1043.00	0.1954	13431229.
103	0.08	197.08	0.60	4.591	2360.97	1043.07	0.1951	13396070.
104	0.08	197.08	0.60	4.591	2363.29	1043.07	0.1948	13352375.
105	0.08	197.03	0.60	4.591	2365.68	1042.93	0.1943	13303805.
106	0.08	197.08	0.60	4.591	2367.93	1043.07	0.1940	13265696.
107	0.08	197.08	0.60	4.591	2369.95	1043.07	0.1937	13228076.
108	0.08	197.08	0.60	4.591	2371.54	1043.07	0.1934	13198644.
109	0.08	197.03	0.60	4.591	2372.34	1042.93	0.1932	13180242.
110	0.08	197.08	0.60	4.591	2372.70	1043.07	0.1932	13177303.
111	0.08	196.94	0.60	4.591	2373.13	1042.71	0.1930	13160018.
112	0.08	197.03	0.60	4.591	2373.56	1042.93	0.1930	13157623.
113	0.08	197.08	0.60	4.591	2374.43	1043.07	0.1929	13145404.
114	0.08	197.08	0.60	4.591	2375.37	1043.07	0.1928	13128185.
115	0.07	197.08	0.60	4.591	2376.31	1043.07	0.1926	13110993.
116	0.08	197.06	0.60	4.591	2377.03	1043.00	0.1925	13095950.
117	0.08	197.08	0.60	4.591	2377.68	1043.07	0.1924	13085947.
118	0.08	197.08	0.60	4.591	2377.89	1043.07	0.1924	13081995.
119	0.08	197.06	0.60	4.591	2377.68	1043.00	0.1924	13084099.
120	0.08	197.00	0.60	4.591	2377.03	1042.85	0.1924	13092251.
121	0.07	197.03	0.60	4.591	2376.23	1042.93	0.1926	13108613.
122	0.08	196.97	0.60	4.591	2375.73	1042.78	0.1926	13114154.
123	0.08	196.94	0.60	4.591	2375.15	1042.71	0.1927	13122878.
124	0.08	197.03	0.60	4.591	2375.01	1042.93	0.1928	13131088.
125	0.08	196.97	0.60	4.591	2375.15	1042.78	0.1927	13124732.
126	0.08	197.00	0.60	4.591	2375.44	1042.85	0.1927	13121296.
127	0.08	196.97	0.60	4.591	2375.73	1042.78	0.1926	13114154.
128	0.08	197.08	0.60	4.591	2376.09	1043.07	0.1927	13114960.
129	0.07	196.97	0.60	4.591	2376.59	1042.78	0.1925	13098312.
130	0.08	197.03	0.60	4.591	2376.96	1042.93	0.1925	13095423.
131	0.08	196.97	0.60	4.591	2377.68	1042.78	0.1923	13078552.
132	0.08	197.03	0.60	4.591	2378.47	1042.93	0.1922	13067768.

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 3 DATE 6/17/74 TIME= 3.62

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
133	0.07	196.97	0.60	4.591	2379.26	1042.78	0.1920	13049662.
134	0.07	196.94	0.60	4.591	2380.05	1042.71	0.1919	13033419.
135	0.07	197.06	0.60	4.591	2380.84	1043.00	0.1919	13026404.
136	0.08	196.97	0.60	4.591	2381.28	1042.78	0.1917	13013052.
137	0.08	196.94	0.60	4.591	2381.49	1042.71	0.1917	13007303.
138	0.07	196.94	0.60	4.591	2381.13	1042.71	0.1917	13013824.
139	0.07	196.89	0.60	4.591	2380.77	1042.56	0.1917	13016666.
140	0.08	196.92	0.60	4.591	2380.49	1042.63	0.1918	13023735.
141	0.07	197.03	0.60	4.591	2380.34	1042.93	0.1919	13033715.
142	0.07	197.03	0.60	4.591	2380.49	1042.93	0.1919	13031099.
143	0.08	196.97	0.60	4.591	2380.63	1042.78	0.1918	13024802.
144	0.07	196.94	0.60	4.591	2380.63	1042.71	0.1918	13022963.
145	0.08	196.94	0.60	4.591	2380.56	1042.71	0.1918	13024270.
146	0.07	196.92	0.60	4.591	2380.27	1042.63	0.1918	13027650.
147	0.07	196.94	0.60	4.591	2379.62	1042.71	0.1920	13041272.
148	0.08	196.89	0.60	4.591	2379.33	1042.56	0.1919	13042823.
149	0.07	196.89	0.60	4.591	2379.40	1042.56	0.1919	13041512.
150	0.07	196.89	0.60	4.591	2379.76	1042.56	0.1919	13034969.
151	0.08	196.86	0.60	4.591	2380.12	1042.49	0.1918	13026586.
152	0.07	196.92	0.60	4.591	2380.63	1042.63	0.1918	13021123.
153	0.07	196.92	0.60	4.591	2381.13	1042.63	0.1917	13011984.
154	0.08	196.89	0.60	4.591	2381.49	1042.56	0.1916	13003624.
155	0.07	196.81	0.60	4.591	2381.71	1042.34	0.1915	12994203.
156	0.07	196.92	0.60	4.591	2381.56	1042.63	0.1916	13004160.
157	0.07	196.89	0.60	4.591	2381.20	1042.56	0.1916	13008839.
158	0.07	196.94	0.60	4.591	2380.63	1042.71	0.1918	13022963.
159	0.08	196.94	0.60	4.591	2379.69	1042.71	0.1919	13039960.
160	0.08	196.97	0.60	4.591	2378.54	1042.78	0.1922	13062782.
161	0.08	196.94	0.60	4.591	2377.53	1042.71	0.1923	13079334.
162	0.07	196.92	0.60	4.591	2376.67	1042.63	0.1924	13093289.
163	0.07	196.89	0.60	4.591	2376.09	1042.56	0.1925	13101995.
164	0.07	196.89	0.60	4.591	2375.66	1042.56	0.1925	13109915.
165	0.08	196.89	0.60	4.591	2375.37	1042.56	0.1926	13115202.
166	0.07	196.86	0.60	4.591	2375.37	1042.49	0.1926	13113348.
167	0.08	196.89	0.60	4.591	2375.37	1042.56	0.1926	13115202.
168	0.08	196.89	0.60	4.591	2375.30	1042.56	0.1926	13116522.
169	0.07	196.92	0.60	4.591	2375.15	1042.63	0.1927	13121025.
170	0.08	196.89	0.60	4.591	2374.86	1042.56	0.1927	13124462.
171	0.08	196.89	0.60	4.591	2374.50	1042.56	0.1927	13131034.
172	0.08	196.89	0.60	4.591	2374.14	1042.56	0.1928	13137712.
173	0.08	196.83	0.60	4.591	2373.78	1042.41	0.1928	13140625.
174	0.08	196.89	0.60	4.591	2373.64	1042.56	0.1929	13146998.
175	0.08	196.89	0.60	4.591	2373.56	1042.56	0.1929	13148327.
176	0.08	196.83	0.60	4.591	2373.42	1042.41	0.1928	13147262.

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 3 DATE 6/17/74 TIME= 3.62

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
177	0.07	196.83	0.60	4.591	2373.35	1042.41	0.1929	13148593.
178	0.07	196.92	0.60	4.591	2373.28	1042.63	0.1930	13155501.
179	0.07	196.89	0.60	4.591	2372.91	1042.56	0.1930	13160286.
180	0.07	196.83	0.60	4.591	2372.70	1042.41	0.1930	13160550.
181	0.07	196.83	0.60	4.591	2372.63	1042.41	0.1930	13161833.
182	0.07	196.83	0.60	4.591	2372.55	1042.41	0.1930	13163213.
183	0.08	196.86	0.60	4.591	2372.77	1042.49	0.1930	13161084.
184	0.07	196.83	0.60	4.591	2372.91	1042.41	0.1929	13156565.
185	0.07	196.86	0.60	4.591	2373.13	1042.49	0.1929	13154437.
186	0.08	196.83	0.60	4.591	2373.35	1042.41	0.1929	13148593.
187	0.07	196.89	0.60	4.591	2373.71	1042.56	0.1929	13145672.
188	0.07	196.94	0.60	4.591	2374.14	1042.71	0.1928	13141429.
189	0.07	196.92	0.60	4.591	2374.72	1042.63	0.1927	13128966.
190	0.08	196.92	0.60	4.591	2375.30	1042.63	0.1926	13118381.
191	0.08	196.92	0.60	4.591	2375.87	1042.63	0.1925	13107804.
192	0.07	196.92	0.60	4.591	2376.59	1042.63	0.1924	13094613.
193	0.08	196.92	0.60	4.591	2377.10	1042.63	0.1923	13085385.
194	0.07	196.92	0.60	4.591	2377.46	1042.63	0.1923	13078802.
195	0.08	196.92	0.60	4.591	2377.75	1042.63	0.1922	13073545.
196	0.07	196.89	0.60	4.591	2377.60	1042.56	0.1922	13074323.
197	0.07	196.92	0.60	4.591	2377.03	1042.63	0.1923	13086701.
198	0.07	196.86	0.60	4.591	2376.59	1042.49	0.1924	13090908.
199	0.08	196.92	0.60	4.591	2376.09	1042.63	0.1925	13103847.
200	0.08	196.89	0.60	4.591	2375.73	1042.56	0.1925	13108594.
201	0.08	196.89	0.60	4.591	2375.51	1042.56	0.1926	13112557.
202	0.08	196.83	0.60	4.591	2375.15	1042.41	0.1926	13115458.
203	0.08	196.86	0.60	4.591	2375.08	1042.49	0.1926	13118637.
204	0.08	196.89	0.60	4.591	2375.15	1042.56	0.1926	13119169.
205	0.08	196.89	0.60	4.591	2375.37	1042.56	0.1926	13115202.
206	0.08	196.89	0.60	4.591	2375.73	1042.56	0.1925	13108594.
207	0.08	196.94	0.60	4.591	2375.95	1042.71	0.1925	13103338.
208	0.07	196.89	0.60	4.591	2376.23	1042.56	0.1924	13099350.
209	0.08	196.94	0.60	4.591	2376.52	1042.71	0.1925	13097778.
210	0.08	196.92	0.60	4.591	2376.45	1042.63	0.1924	13097248.
211	0.08	196.89	0.60	4.591	2376.45	1042.56	0.1924	13095395.
212	0.07	196.83	0.60	4.591	2376.59	1042.41	0.1923	13089058.
213	0.07	196.81	0.60	4.591	2376.67	1042.34	0.1923	13085813.
214	0.08	196.78	0.60	4.591	2377.10	1042.26	0.1922	13076135.
215	0.07	196.89	0.60	4.591	2377.68	1042.56	0.1922	13073008.
216	0.08	196.89	0.60	4.591	2377.96	1042.56	0.1922	13067747.
217	0.07	196.78	0.60	4.591	2378.54	1042.26	0.1920	13049857.
218	0.08	196.81	0.60	4.591	2378.90	1042.34	0.1919	13045149.
219	0.08	196.83	0.60	4.591	2379.33	1042.41	0.1919	13039134.
220	0.07	196.81	0.60	4.591	2379.55	1042.34	0.1918	13033361.

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 3 DATE 6/17/74 TIME= 3.62

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
221	0.07	196.81	0.60	4.591	2379.76	1042.34	0.1918	13029440.
222	0.08	196.81	0.60	4.591	2379.91	1042.34	0.1918	13026820.
223	0.07	196.83	0.60	4.591	2379.69	1042.41	0.1918	13032589.
224	0.08	196.83	0.60	4.591	2379.55	1042.41	0.1919	13035207.
225	0.08	196.83	0.60	4.591	2379.26	1042.41	0.1919	13040442.
226	0.08	196.89	0.60	4.591	2379.26	1042.56	0.1920	13044129.
227	0.08	196.89	0.60	4.591	2379.33	1042.56	0.1919	13042823.
228	0.07	196.83	0.60	4.591	2379.48	1042.41	0.1919	13036511.
229	0.08	196.89	0.60	4.591	2379.55	1042.56	0.1919	13038892.
230	0.08	196.86	0.60	4.591	2379.76	1042.49	0.1918	13033127.
231	0.08	196.86	0.60	4.591	2379.84	1042.49	0.1918	13031817.
232	0.08	196.81	0.60	4.591	2379.98	1042.34	0.1918	13025513.
233	0.08	196.83	0.60	4.591	2380.12	1042.41	0.1918	13024745.
234	0.08	196.81	0.60	4.591	2379.84	1042.34	0.1918	13028130.
235	0.08	196.89	0.60	4.591	2379.55	1042.56	0.1919	13038892.
236	0.07	196.83	0.60	4.591	2379.05	1042.41	0.1919	13044373.
237	0.09	196.94	0.60	4.591	2378.47	1042.71	0.1921	13062250.
238	0.08	196.89	0.60	4.591	2377.96	1042.56	0.1922	13067747.
239	0.08	196.89	0.60	4.591	2377.82	1042.56	0.1922	13070380.
240	0.07	196.83	0.60	4.591	2377.68	1042.41	0.1922	13069313.
241	0.08	196.83	0.60	4.591	2377.82	1042.41	0.1921	13066685.
242	0.08	196.83	0.60	4.591	2378.04	1042.41	0.1921	13062742.
243	0.08	196.81	0.60	4.591	2378.25	1042.34	0.1920	13056951.
244	0.08	196.83	0.60	4.591	2378.68	1042.41	0.1920	13050926.
245	0.07	196.81	0.60	4.591	2378.68	1042.34	0.1920	13049079.
246	0.07	196.81	0.60	4.591	2378.76	1042.34	0.1920	13047769.
247	0.07	196.78	0.60	4.591	2378.40	1042.26	0.1920	13052480.
248	0.08	196.75	0.60	4.591	2378.32	1042.19	0.1920	13051944.
249	0.08	196.72	0.60	4.591	2377.96	1042.12	0.1920	13056661.
250	0.08	196.81	0.60	4.591	2377.68	1042.34	0.1921	13067463.
251	0.08	196.81	0.60	4.591	2377.10	1042.34	0.1922	13077985.
252	0.08	196.83	0.60	4.591	2376.45	1042.41	0.1924	13091692.
253	0.08	196.81	0.60	4.591	2375.87	1042.34	0.1924	13100390.
254	0.08	196.83	0.60	4.591	2375.22	1042.41	0.1926	13114136.
255	0.08	196.89	0.60	4.591	2374.65	1042.56	0.1927	13128433.
256	0.08	196.89	0.60	4.591	2374.14	1042.56	0.1928	13137712.
257	0.08	196.83	0.60	4.591	2373.71	1042.41	0.1928	13141957.
258	0.09	196.83	0.60	4.591	2373.93	1042.41	0.1928	13137974.
259	0.08	196.81	0.60	4.591	2373.85	1042.34	0.1928	13137440.
260	0.08	196.81	0.60	4.591	2373.93	1042.34	0.1927	13136115.
261	0.08	196.75	0.60	4.591	2374.07	1042.19	0.1927	13129748.
262	0.08	196.75	0.60	4.591	2373.85	1042.19	0.1927	13133723.
263	0.08	196.72	0.60	4.591	2373.85	1042.12	0.1927	13131862.
264	0.08	196.69	0.60	4.591	2373.56	1042.04	0.1927	13135313.

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VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 3 DATE 6/17/74 TIME= 3.62

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
265	0.09	196.72	0.60	4.591	2373.35	1042.12	0.1928	13141151.
266	0.08	196.67	0.60	4.591	2373.06	1041.97	0.1927	13142739.
267	0.08	196.72	0.60	4.591	2372.77	1042.12	0.1928	13151774.
268	0.08	196.72	0.60	4.591	2372.34	1042.12	0.1929	13159754.
269	0.08	196.69	0.60	4.591	2372.12	1042.04	0.1929	13161887.
270	0.08	196.75	0.60	4.591	2372.05	1042.19	0.1930	13166944.
271	0.08	196.75	0.60	4.591	2371.83	1042.19	0.1930	13170937.
272	0.08	196.72	0.60	4.591	2371.54	1042.12	0.1930	13174407.
273	0.08	196.75	0.60	4.591	2370.96	1042.19	0.1932	13186938.
274	0.08	196.78	0.60	4.591	2370.39	1042.26	0.1933	13199499.
275	0.08	196.78	0.60	4.591	2370.02	1042.26	0.1933	13206185.
276	0.08	196.81	0.60	4.591	2369.52	1042.34	0.1935	13217427.
277	0.08	196.78	0.60	4.591	2369.08	1042.26	0.1935	13223601.
278	0.09	196.81	0.60	4.591	2368.72	1042.34	0.1936	13232180.
279	0.08	196.78	0.60	4.591	2368.65	1042.26	0.1936	13231650.
280	0.08	196.75	0.60	4.591	2368.58	1042.19	0.1936	13231118.
281	0.08	196.75	0.60	4.591	2368.51	1042.19	0.1936	13232460.
282	0.08	196.78	0.60	4.591	2368.29	1042.26	0.1936	13238366.
283	0.08	196.81	0.60	4.591	2368.22	1042.34	0.1937	13241583.
284	0.08	196.78	0.60	4.591	2368.07	1042.26	0.1937	13242396.
285	0.08	196.75	0.60	4.591	2367.64	1042.19	0.1937	13248594.
286	0.08	196.69	0.60	4.591	2367.28	1042.04	0.1937	13251573.
287	0.08	196.72	0.60	4.591	2366.91	1042.12	0.1938	13260181.
288	0.08	196.72	0.60	4.591	2366.84	1042.12	0.1938	13261529.
289	0.08	196.72	0.60	4.591	2367.06	1042.12	0.1938	13257488.
290	0.08	196.61	0.60	4.591	2367.28	1041.82	0.1936	13245945.
291	0.08	196.64	0.60	4.591	2367.93	1041.90	0.1936	13235716.
292	0.08	196.67	0.60	4.591	2368.36	1041.97	0.1935	13229533.
293	0.09	196.67	0.60	4.591	2368.72	1041.97	0.1935	13222821.
294	0.08	196.64	0.60	4.591	2369.01	1041.90	0.1934	13215586.
295	0.08	196.67	0.60	4.591	2369.37	1041.97	0.1933	13210754.
296	0.08	196.67	0.60	4.591	2369.37	1041.97	0.1933	13210754.
297	0.08	196.67	0.60	4.591	2369.30	1041.97	0.1934	13212095.
298	0.08	196.61	0.60	4.591	2369.23	1041.82	0.1933	13209696.
299	0.08	196.69	0.60	4.591	2369.16	1042.04	0.1934	13216647.
300	0.08	196.81	0.60	4.591	2369.37	1042.34	0.1935	13220106.
301	0.08	196.81	0.60	4.591	2369.66	1042.34	0.1934	13214748.
302	0.08	196.81	0.60	4.591	2369.81	1042.34	0.1934	13212069.
303	0.08	196.75	0.60	4.591	2370.24	1042.19	0.1933	13200301.
304	0.08	196.83	0.60	4.591	2370.60	1042.41	0.1933	13199220.
305	0.08	196.81	0.60	4.591	2371.33	1042.34	0.1932	13183997.
306	0.08	196.78	0.60	4.591	2371.76	1042.26	0.1931	13174132.
307	0.08	196.75	0.60	4.591	2372.19	1042.19	0.1930	13164279.
308	0.08	196.67	0.60	4.591	2372.55	1041.97	0.1928	13152040.

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 3 DATE 6/17/74 TIME= 3.62

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
309	0.08	196.67	0.60	4.591	2372.70	1041.97	0.1928	13149381.
310	0.08	196.64	0.60	4.591	2372.48	1041.90	0.1928	13151510.
311	0.08	196.61	0.60	4.591	2372.12	1041.82	0.1928	13156297.
312	0.08	196.53	0.60	4.591	2371.69	1041.60	0.1928	13158694.
313	0.08	196.53	0.60	4.591	2371.69	1041.60	0.1928	13158694.
314	0.08	196.53	0.60	4.591	2371.69	1041.60	0.1928	13158694.
315	0.07	196.50	0.60	4.591	2371.76	1041.53	0.1928	13155493.
316	0.08	196.53	0.60	4.591	2371.76	1041.60	0.1928	13157357.
317	0.08	196.53	0.60	4.591	2371.90	1041.60	0.1928	13154701.
318	0.08	196.58	0.60	4.591	2371.98	1041.75	0.1928	13157097.
319	0.07	196.61	0.60	4.591	2371.98	1041.82	0.1929	13158958.
320	0.07	196.64	0.60	4.591	2371.98	1041.90	0.1929	13160822.
321	0.08	196.67	0.60	4.591	2372.05	1041.97	0.1929	13161355.
322	0.09	196.64	0.60	4.591	2372.12	1041.90	0.1929	13156158.
323	0.08	196.64	0.60	4.591	2372.19	1041.90	0.1929	13156829.
324	0.08	196.64	0.60	4.591	2372.26	1041.90	0.1928	13155499.
325	0.08	196.67	0.60	4.591	2372.26	1041.97	0.1929	13157361.
326	0.08	196.61	0.60	4.591	2372.12	1041.82	0.1928	13156297.
327	0.07	196.64	0.60	4.591	2371.76	1041.90	0.1929	13164810.
328	0.08	196.64	0.60	4.591	2371.54	1041.90	0.1930	13168813.
329	0.08	196.58	0.60	4.591	2371.33	1041.75	0.1929	13169079.
330	0.08	196.53	0.60	4.591	2371.04	1041.60	0.1929	13170681.
331	0.08	196.53	0.60	4.591	2371.04	1041.60	0.1929	13170681.
332	0.08	196.53	0.60	4.591	2371.18	1041.60	0.1929	13168017.
333	0.08	196.47	0.60	4.591	2371.47	1041.45	0.1928	13158958.
334	0.08	196.53	0.60	4.591	2371.90	1041.60	0.1928	13154701.
335	0.07	196.47	0.60	4.591	2372.26	1041.45	0.1927	13144326.
336	0.09	196.42	0.60	4.591	2372.70	1041.31	0.1926	13132630.
337	0.08	196.44	0.60	4.591	2372.91	1041.38	0.1925	13130512.
338	0.07	196.47	0.60	4.591	2373.13	1041.45	0.1925	13128395.
339	0.08	196.42	0.60	4.591	2373.28	1041.31	0.1925	13122021.
340	0.08	196.44	0.60	4.591	2373.28	1041.38	0.1925	13123880.
341	0.08	196.42	0.60	4.591	2373.35	1041.31	0.1925	13120697.
342	0.08	196.36	0.60	4.591	2373.35	1041.16	0.1924	13116978.
343	0.08	196.36	0.60	4.591	2373.28	1041.16	0.1924	13118302.
344	0.08	196.33	0.60	4.591	2373.13	1041.08	0.1924	13119092.
345	0.08	196.28	0.60	4.591	2372.99	1040.94	0.1924	13118018.
346	0.09	196.25	0.60	4.591	2372.70	1040.86	0.1924	13121461.
347	0.08	196.22	0.60	4.591	2372.19	1040.79	0.1924	13128891.
348	0.08	196.22	0.60	4.591	2371.47	1040.79	0.1926	13142177.
349	0.08	196.28	0.60	4.591	2370.39	1040.94	0.1928	13165836.
350	0.08	196.25	0.60	4.591	2369.37	1040.86	0.1929	13182707.
351	0.08	196.28	0.60	4.591	2368.72	1040.94	0.1931	13196620.
352	0.08	196.25	0.60	4.591	2368.22	1040.86	0.1931	13204121.

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 3 DATE 6/17/74 TIME= 3.62

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
353	0.08	196.25	0.60	4.591	2367.78	1040.86	0.1932	13212166.
354	0.08	196.28	0.60	4.591	2367.71	1040.94	0.1932	13215383.
355	0.08	196.22	0.60	4.591	2367.49	1040.79	0.1932	13215661.
356	0.08	196.22	0.60	4.591	2367.49	1040.79	0.1932	13215661.
357	0.08	196.19	0.60	4.591	2367.56	1040.71	0.1932	13212442.
358	0.08	196.17	0.60	4.591	2367.78	1040.64	0.1931	13206540.
359	0.08	196.28	0.60	4.591	2368.07	1040.94	0.1932	13208676.
360	0.08	196.14	0.60	4.591	2368.07	1040.57	0.1930	13199309.
361	0.07	196.14	0.60	4.591	2368.00	1040.57	0.1930	13200648.
362	0.08	196.05	0.60	4.591	2367.71	1040.35	0.1930	13200385.
363	0.08	196.03	0.60	4.591	2367.49	1040.27	0.1930	13202532.
364	0.08	196.00	0.60	4.591	2367.20	1040.20	0.1930	13206028.
365	0.08	196.03	0.60	4.591	2367.49	1040.27	0.1930	13202532.
366	0.08	195.97	0.60	4.591	2367.49	1040.12	0.1930	13198785.
367	0.08	196.03	0.60	4.591	2367.56	1040.27	0.1930	13201192.
368	0.08	196.03	0.60	4.591	2367.78	1040.27	0.1930	13197170.
369	0.07	195.97	0.60	4.591	2367.93	1040.12	0.1929	13190744.
370	0.08	195.91	0.60	4.591	2367.78	1039.98	0.1929	13189674.
371	0.08	195.91	0.60	4.591	2367.78	1039.98	0.1929	13189674.
372	0.08	195.89	0.60	4.591	2367.78	1039.90	0.1928	13187799.
373	0.08	195.91	0.60	4.591	2367.85	1039.98	0.1929	13183335.
374	0.07	195.89	0.60	4.591	2368.14	1039.90	0.1928	13181109.
375	0.08	195.80	0.60	4.591	2368.22	1039.68	0.1927	13174151.
376	0.08	195.80	0.60	4.591	2368.36	1039.68	0.1927	13171478.
377	0.08	195.83	0.60	4.591	2368.51	1039.75	0.1927	13170677.
378	0.08	195.75	0.60	4.591	2368.51	1039.53	0.1926	13165060.
379	0.08	195.80	0.60	4.591	2368.36	1039.68	0.1927	13171478.
380	0.08	195.72	0.60	4.591	2368.58	1039.46	0.1925	13161852.
381	0.08	195.72	0.60	4.591	2368.51	1039.46	0.1926	13163189.
382	0.08	195.66	0.60	4.591	2368.58	1039.31	0.1925	13158107.
383	0.08	195.66	0.60	4.591	2368.58	1039.31	0.1925	13158107.
384	0.07	195.58	0.60	4.591	2368.51	1039.09	0.1924	13153826.
385	0.08	195.58	0.60	4.591	2368.36	1039.09	0.1924	13156497.
386	0.08	195.44	0.60	4.591	2368.29	1038.72	0.1923	13148466.
387	0.07	195.41	0.60	4.591	2368.29	1038.65	0.1923	13146595.
388	0.08	195.39	0.60	4.591	2368.00	1038.57	0.1923	13150056.
389	0.08	195.33	0.60	4.591	2367.93	1038.42	0.1923	13147647.
390	0.08	195.27	0.60	4.591	2367.78	1038.28	0.1922	13146567.
391	0.07	195.22	0.60	4.591	2367.78	1038.13	0.1922	13142818.
392	0.08	195.19	0.60	4.591	2367.71	1038.05	0.1922	13142280.
393	0.08	195.16	0.60	4.591	2367.49	1037.98	0.1922	13144410.
394	0.08	195.16	0.60	4.591	2367.35	1037.98	0.1922	13147079.
395	0.08	195.05	0.60	4.591	2367.28	1037.68	0.1921	13140913.
396	0.07	195.05	0.60	4.591	2367.13	1037.68	0.1921	13143586.

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 3 DATE 6/17/74 TIME= 3.62

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
397	0.08	195.02	0.60	4.591	2366.91	1037.61	0.1921	13145714.
398	0.07	194.91	0.60	4.591	2366.70	1037.31	0.1921	13142217.
399	0.08	194.91	0.60	4.591	2366.55	1037.31	0.1921	13144886.
400	0.08	194.77	0.60	4.591	2366.33	1036.94	0.1920	13139508.
401	0.08	194.72	0.60	4.591	2366.26	1036.79	0.1919	13137087.
402	0.08	194.66	0.60	4.591	2366.04	1036.65	0.1919	13137339.
403	0.09	194.58	0.60	4.591	2365.83	1036.42	0.1919	13135710.
404	0.08	194.44	0.60	4.591	2365.68	1036.05	0.1918	13128986.
405	0.08	194.30	0.60	4.591	2365.46	1035.68	0.1917	13123592.
406	0.08	194.22	0.60	4.591	2365.03	1035.46	0.1916	13125964.
407	0.08	194.05	0.59	4.591	2364.60	1035.01	0.1915	13122690.
408	0.08	193.94	0.59	4.591	2364.31	1034.72	0.1915	13120509.
409	0.08	193.83	0.59	4.591	2363.87	1034.42	0.1914	13120995.
410	0.09	193.74	0.59	4.591	2363.36	1034.20	0.1914	13124702.
411	0.08	193.58	0.59	4.591	2362.93	1033.75	0.1913	13121410.
412	0.08	193.41	0.59	4.591	2362.49	1033.30	0.1913	13118121.
413	0.08	193.30	0.59	4.591	2362.13	1033.01	0.1912	13117262.
414	0.08	193.10	0.59	4.591	2361.77	1032.49	0.1911	13110733.
415	0.07	192.91	0.59	4.591	2361.40	1031.96	0.1909	13104188.
416	0.08	192.80	0.59	4.591	2361.26	1031.67	0.1908	13099300.
417	0.07	192.55	0.59	4.591	2361.11	1031.00	0.1906	13084958.
418	0.08	192.38	0.59	4.591	2360.90	1030.55	0.1905	13077608.
419	0.08	192.13	0.59	4.591	2360.75	1029.88	0.1903	13063244.
420	0.08	191.74	0.59	4.591	2360.68	1028.83	0.1899	13038081.
421	0.08	191.15	0.59	4.591	2360.53	1027.26	0.1893	13000986.
422	0.08	190.21	0.58	4.591	2360.17	1024.72	0.1885	12943228.
423	0.08	188.68	0.58	4.591	2359.73	1020.58	0.1870	12846920.
424	0.08	186.76	0.57	4.591	2358.86	1015.38	0.1852	12731756.
425	0.08	184.17	0.56	4.591	2357.70	1008.31	0.1829	12575854.
426	0.08	181.24	0.56	4.591	2355.96	1000.28	0.1802	12406763.
427	0.08	177.87	0.54	4.591	2354.06	990.94	0.1771	12208764.
428	0.08	174.70	0.53	4.591	2351.44	982.06	0.1744	12035489.
429	0.08	171.11	0.52	4.591	2348.60	971.91	0.1712	11835660.
430	0.08	167.66	0.51	4.591	2345.24	962.06	0.1682	11652279.
431	0.08	164.23	0.50	4.591	2341.51	952.18	0.1653	11474974.
432	0.08	160.86	0.49	4.591	2337.55	942.37	0.1625	11303127.
433	0.08	157.58	0.48	4.591	2333.45	932.70	0.1597	11137451.
434	0.08	154.38	0.47	4.591	2329.18	923.17	0.1570	10977941.
435	0.08	151.23	0.46	4.591	2324.99	913.72	0.1544	10819174.
436	0.08	148.22	0.45	4.591	2321.00	904.59	0.1518	10664976.
437	0.08	145.16	0.44	4.591	2317.09	895.20	0.1492	10503732.
438	0.08	142.24	0.43	4.591	2313.46	886.14	0.1467	10346241.
439	0.08	139.46	0.43	4.591	2309.83	877.42	0.1442	10197181.
440	0.07	136.62	0.42	4.591	2306.04	868.44	0.1418	10044522.

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VSD HIGH SPEED WIND TUNNEL TEST 498
RUN 3 DATE 6/17/74 TIME= 3.62

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
441	0.08	133.91	0.41	4.591	2302.54	859.82	0.1394	9896081.

PS 0.602 PO195.028 Q 1280.PSF MACH 4.590
TO 577. RN/L 13110068. PHI 0.0

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 4 DATE 6/17/74 TIME= 4.26

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
1	0.07	195.71	0.60	4.591	2442.10	1039.45	0.1811	11895646.
2	0.06	195.58	0.60	4.591	2431.76	1039.08	0.1825	12054554.
3	0.07	195.74	0.60	4.591	2423.43	1039.52	0.1839	12202223.
4	0.06	195.99	0.60	4.591	2416.99	1040.18	0.1852	12325730.
5	0.06	196.30	0.60	4.591	2411.95	1041.00	0.1862	12430428.
6	0.06	196.74	0.60	4.591	2407.76	1042.18	0.1873	12530550.
7	0.07	197.02	0.60	4.591	2404.27	1042.91	0.1881	12608638.
8	0.08	197.22	0.60	4.591	2401.56	1043.43	0.1887	12668293.
9	0.08	197.50	0.61	4.591	2398.99	1044.17	0.1894	12731218.
10	0.08	197.55	0.61	4.591	2396.27	1044.31	0.1899	12782658.
11	0.08	197.58	0.61	4.591	2393.77	1044.39	0.1903	12828807.
12	0.08	197.55	0.61	4.591	2391.62	1044.31	0.1906	12865213.
13	0.08	197.44	0.61	4.591	2389.75	1044.02	0.1908	12891218.
14	0.08	197.39	0.60	4.591	2388.39	1043.87	0.1910	12911968.
15	0.07	197.27	0.60	4.591	2387.24	1043.58	0.1910	12925270.
16	0.08	197.11	0.60	4.591	2385.81	1043.14	0.1911	12940116.
17	0.08	197.00	0.60	4.591	2384.44	1042.84	0.1912	12957371.
18	0.09	196.88	0.60	4.591	2383.36	1042.55	0.1913	12969486.
19	0.09	196.94	0.60	4.591	2382.86	1042.69	0.1914	12982245.
20	0.08	196.88	0.60	4.591	2381.92	1042.55	0.1915	12995477.
21	0.08	196.97	0.60	4.591	2380.27	1042.77	0.1919	13031002.
22	0.09	197.02	0.60	4.591	2378.40	1042.91	0.1922	13068769.
23	0.08	197.02	0.60	4.591	2376.09	1042.91	0.1926	13110925.
24	0.08	197.08	0.60	4.591	2374.00	1043.06	0.1930	13153034.
25	0.09	197.08	0.60	4.591	2372.55	1043.06	0.1932	13179633.
26	0.09	197.11	0.60	4.591	2371.18	1043.14	0.1935	13206854.
27	0.08	197.13	0.60	4.591	2369.66	1043.21	0.1938	13236846.
28	0.08	197.13	0.60	4.591	2367.49	1043.21	0.1941	13277198.
29	0.08	197.13	0.60	4.591	2365.39	1043.21	0.1945	13316404.
30	0.08	197.11	0.60	4.591	2363.36	1043.14	0.1948	13352560.
31	0.09	197.16	0.60	4.591	2361.77	1043.28	0.1951	13386352.
32	0.09	197.13	0.60	4.591	2360.53	1043.21	0.1953	13407737.
33	0.09	197.22	0.60	4.591	2359.30	1043.43	0.1955	13436766.
34	0.08	197.19	0.60	4.591	2358.50	1043.36	0.1957	13450014.
35	0.08	197.13	0.60	4.591	2358.65	1043.21	0.1956	13443465.
36	0.09	197.16	0.60	4.591	2359.01	1043.28	0.1955	13438476.
37	0.09	197.13	0.60	4.591	2359.15	1043.21	0.1955	13433825.
38	0.09	197.13	0.60	4.591	2359.15	1043.21	0.1955	13433825.
39	0.09	197.13	0.60	4.591	2359.73	1043.21	0.1954	13422833.
40	0.09	197.13	0.60	4.591	2360.17	1043.21	0.1953	13414595.
41	0.09	197.13	0.60	4.591	2359.81	1043.21	0.1954	13421459.
42	0.09	197.13	0.60	4.591	2360.46	1043.21	0.1953	13409102.
43	0.09	197.16	0.60	4.591	2361.11	1043.28	0.1952	13398671.
44	0.09	197.22	0.60	4.591	2362.28	1043.43	0.1951	13380567.

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 4 DATE 6/17/74 TIME= 4.26

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
45	0.09	197.22	0.60	4.591	2364.16	1043.43	0.1947	13345130.
46	0.09	197.22	0.60	4.591	2365.90	1043.43	0.1945	13312560.
47	0.09	197.22	0.60	4.591	2367.71	1043.43	0.1942	13278776.
48	0.09	197.11	0.60	4.591	2368.36	1043.14	0.1939	13259163.
49	0.09	197.13	0.60	4.591	2368.94	1043.21	0.1939	13250273.
50	0.09	197.22	0.60	4.591	2370.46	1043.43	0.1937	13227701.
51	0.08	197.13	0.60	4.591	2372.55	1043.21	0.1933	13183356.
52	0.09	197.22	0.60	4.591	2375.73	1043.43	0.1929	13130504.
53	0.09	197.22	0.60	4.591	2378.54	1043.43	0.1924	13079066.
54	0.09	197.16	0.60	4.591	2380.27	1043.28	0.1921	13043895.
55	0.09	197.22	0.60	4.591	2380.99	1043.43	0.1920	13034502.
56	0.08	197.22	0.60	4.591	2382.07	1043.43	0.1918	13014923.
57	0.08	197.22	0.60	4.591	2383.65	1043.43	0.1916	12986291.
58	0.08	197.22	0.60	4.591	2384.58	1043.43	0.1914	12969431.
59	0.08	197.19	0.60	4.591	2384.66	1043.36	0.1914	12966305.
60	0.08	197.19	0.60	4.591	2384.51	1043.36	0.1914	12968893.
61	0.09	197.22	0.60	4.591	2384.66	1043.43	0.1914	12968133.
62	0.08	197.27	0.60	4.591	2385.88	1043.58	0.1913	12949790.
63	0.09	197.25	0.60	4.591	2387.46	1043.50	0.1910	12919586.
64	0.09	197.30	0.60	4.591	2387.60	1043.65	0.1910	12920654.
65	0.09	197.27	0.60	4.591	2386.81	1043.58	0.1911	12933003.
66	0.08	197.22	0.60	4.591	2386.09	1043.43	0.1912	12942259.
67	0.08	197.27	0.60	4.591	2385.37	1043.58	0.1913	12958842.
68	0.08	197.25	0.60	4.591	2384.23	1043.50	0.1915	12977742.
69	0.09	197.22	0.60	4.591	2383.79	1043.43	0.1915	12983699.
70	0.09	197.19	0.60	4.591	2383.72	1043.36	0.1915	12983164.
71	0.09	197.19	0.60	4.591	2383.58	1043.36	0.1916	12985761.
72	0.09	197.13	0.60	4.591	2382.86	1043.21	0.1916	12995088.
73	0.09	197.19	0.60	4.591	2381.92	1043.36	0.1918	13015693.
74	0.09	197.27	0.60	4.591	2381.49	1043.58	0.1920	13029035.
75	0.09	197.13	0.60	4.591	2381.92	1043.21	0.1918	13012016.
76	0.09	197.13	0.60	4.591	2382.43	1043.21	0.1917	13002899.
77	0.09	197.19	0.60	4.591	2383.15	1043.36	0.1916	12993556.
78	0.09	197.22	0.60	4.591	2384.58	1043.43	0.1914	12969431.
79	0.09	197.27	0.60	4.591	2386.09	1043.58	0.1912	12945911.
80	0.09	197.22	0.60	4.591	2387.03	1043.43	0.1910	12925490.
81	0.09	197.25	0.60	4.591	2387.60	1043.50	0.1910	12917008.
82	0.09	197.22	0.60	4.591	2389.04	1043.43	0.1907	12889495.
83	0.09	197.19	0.60	4.591	2390.25	1043.36	0.1905	12865404.
84	0.09	197.19	0.60	4.591	2391.33	1043.36	0.1903	12846747.
85	0.08	197.22	0.60	4.591	2392.62	1043.43	0.1901	12825630.
86	0.08	197.16	0.60	4.591	2393.26	1043.28	0.1900	12810572.
87	0.09	197.13	0.60	4.591	2393.77	1043.21	0.1899	12799847.
88	0.09	197.11	0.60	4.591	2394.12	1043.14	0.1898	12791743.

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 4 DATE 6/17/74 TIME= 4.26

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
89	0.09	197.08	0.60	4.591	2394.84	1043.06	0.1897	12777276.
90	0.08	197.08	0.60	4.591	2395.05	1043.06	0.1896	12773490.
91	0.08	197.08	0.60	4.591	2394.77	1043.06	0.1897	12778546.
92	0.08	197.13	0.60	4.591	2394.98	1043.21	0.1897	12778362.
93	0.09	197.13	0.60	4.591	2395.05	1043.21	0.1897	12777101.
94	0.09	197.16	0.60	4.591	2394.12	1043.28	0.1898	12795355.
95	0.08	197.13	0.60	4.591	2392.62	1043.21	0.1901	12820201.
96	0.09	197.13	0.60	4.591	2391.40	1043.21	0.1903	12841844.
97	0.08	197.11	0.60	4.591	2391.19	1043.14	0.1903	12843854.
98	0.08	197.22	0.60	4.591	2391.26	1043.43	0.1904	12849835.
99	0.08	197.13	0.60	4.591	2391.04	1043.21	0.1903	12848222.
100	0.09	197.08	0.60	4.591	2389.82	1043.06	0.1904	12866308.
101	0.09	197.08	0.60	4.591	2388.39	1043.06	0.1907	12891936.
102	0.09	197.08	0.60	4.591	2387.31	1043.06	0.1908	12911216.
103	0.08	197.08	0.60	4.591	2386.67	1043.06	0.1910	12922809.
104	0.08	197.11	0.60	4.591	2385.66	1043.14	0.1911	12942698.
105	0.08	197.13	0.60	4.591	2384.08	1043.21	0.1914	12973009.
106	0.09	197.11	0.60	4.591	2383.36	1043.14	0.1915	12984156.
107	0.08	197.11	0.60	4.591	2384.15	1043.14	0.1914	12969879.
108	0.09	197.08	0.60	4.591	2384.44	1043.06	0.1913	12962862.
109	0.08	197.08	0.60	4.591	2384.15	1043.06	0.1914	12968046.
110	0.08	197.13	0.60	4.591	2383.72	1043.21	0.1915	12979498.
111	0.08	197.16	0.60	4.591	2384.01	1043.28	0.1915	12976136.
112	0.08	197.19	0.60	4.591	2385.09	1043.36	0.1913	12958534.
113	0.09	197.11	0.60	4.591	2386.60	1043.14	0.1910	12925923.
114	0.09	197.08	0.60	4.591	2387.82	1043.06	0.1908	12902212.
115	0.09	197.08	0.60	4.591	2388.32	1043.06	0.1907	12893224.
116	0.08	197.02	0.60	4.591	2388.39	1042.91	0.1906	12888297.
117	0.09	197.02	0.60	4.591	2387.60	1042.91	0.1907	12902424.
118	0.08	197.05	0.60	4.591	2386.81	1042.99	0.1909	12918402.
119	0.09	197.00	0.60	4.591	2386.88	1042.84	0.1908	12913468.
120	0.08	197.02	0.60	4.591	2387.31	1042.91	0.1908	12907570.
121	0.09	197.00	0.60	4.591	2387.67	1042.84	0.1907	12899317.
122	0.09	197.08	0.60	4.591	2388.39	1043.06	0.1907	12891936.
123	0.09	197.02	0.60	4.591	2388.82	1042.91	0.1906	12880601.
124	0.09	197.11	0.60	4.591	2389.04	1043.14	0.1906	12882216.
125	0.09	197.08	0.60	4.591	2389.25	1043.06	0.1905	12876548.
126	0.09	197.08	0.60	4.591	2388.61	1043.06	0.1906	12888090.
127	0.08	197.02	0.60	4.591	2387.46	1042.91	0.1908	12905000.
128	0.08	196.97	0.60	4.591	2385.30	1042.77	0.1911	12940017.
129	0.08	197.02	0.60	4.591	2383.87	1042.91	0.1913	12949572.
130	0.08	196.94	0.60	4.591	2383.94	1042.69	0.1913	12962775.
131	0.08	196.94	0.60	4.591	2383.72	1042.69	0.1913	12966668.
132	0.09	196.91	0.60	4.591	2383.07	1042.62	0.1914	12976514.

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VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 4 DATE 6/17/74 TIME= 4.26

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
133	0.09	196.97	0.60	4.591	2382.86	1042.77	0.1915	12984078.
134	0.09	196.94	0.60	4.591	2383.15	1042.69	0.1914	12977047.
135	0.08	197.08	0.60	4.591	2384.15	1043.06	0.1914	12968046.
136	0.09	196.94	0.60	4.591	2385.23	1042.69	0.1910	12939481.
137	0.08	196.97	0.60	4.591	2385.66	1042.77	0.1910	12933559.
138	0.08	197.02	0.60	4.591	2386.31	1042.91	0.1910	12925605.
139	0.08	196.94	0.60	4.591	2386.88	1042.69	0.1908	12909819.
140	0.08	196.97	0.60	4.591	2387.82	1042.77	0.1907	12894925.
141	0.09	196.94	0.60	4.591	2388.39	1042.69	0.1905	12882833.
142	0.08	196.91	0.60	4.591	2387.89	1042.62	0.1906	12889999.
143	0.08	196.94	0.60	4.591	2386.17	1042.69	0.1909	12922702.
144	0.08	196.88	0.60	4.591	2384.58	1042.55	0.1911	12947460.
145	0.09	196.80	0.60	4.591	2383.65	1042.32	0.1912	12958794.
146	0.08	196.80	0.60	4.591	2384.23	1042.32	0.1911	12948435.
147	0.09	196.88	0.60	4.591	2385.37	1042.55	0.1910	12933240.
148	0.08	196.83	0.60	4.591	2386.31	1042.40	0.1908	12912819.
149	0.08	196.88	0.60	4.591	2386.02	1042.55	0.1909	12921624.
150	0.09	196.83	0.60	4.591	2385.02	1042.40	0.1910	12936042.
151	0.08	196.88	0.60	4.591	2384.37	1042.55	0.1911	12951338.
152	0.08	196.80	0.60	4.591	2384.08	1042.32	0.1911	12951023.
153	0.09	196.80	0.60	4.591	2383.94	1042.32	0.1911	12953610.
154	0.08	196.77	0.60	4.591	2384.01	1042.25	0.1911	12950487.
155	0.08	196.80	0.60	4.591	2384.51	1042.32	0.1910	12943257.
156	0.08	196.74	0.60	4.591	2385.23	1042.18	0.1909	12976677.
157	0.08	196.83	0.60	4.591	2385.81	1042.40	0.1908	12921841.
158	0.09	196.88	0.60	4.591	2385.81	1042.55	0.1909	12925494.
159	0.08	196.83	0.60	4.591	2385.02	1042.40	0.1910	12936042.
160	0.08	196.80	0.60	4.591	2384.30	1042.32	0.1911	12947145.
161	0.09	196.80	0.60	4.591	2384.01	1042.32	0.1911	12952317.
162	0.08	196.83	0.60	4.591	2382.93	1042.40	0.1913	12973604.
163	0.08	196.80	0.60	4.591	2380.70	1042.32	0.1916	13012121.
164	0.09	196.72	0.60	4.591	2378.97	1042.10	0.1918	13037971.
165	0.09	196.72	0.60	4.591	2377.46	1042.10	0.1921	13065522.
166	0.09	196.74	0.60	4.591	2376.59	1042.18	0.1922	13083168.
167	0.09	196.72	0.60	4.591	2375.73	1042.10	0.1924	13097139.
168	0.08	196.63	0.60	4.591	2374.58	1041.88	0.1925	13112715.
169	0.09	196.58	0.60	4.591	2373.93	1041.73	0.1925	13120917.
170	0.08	196.58	0.60	4.591	2374.86	1041.73	0.1924	13103716.
171	0.09	196.63	0.60	4.591	2376.59	1041.88	0.1921	13075762.
172	0.09	196.58	0.60	4.591	2377.75	1041.73	0.1919	13051033.
173	0.09	196.63	0.60	4.591	2378.11	1041.88	0.1919	13048164.
174	0.08	196.66	0.60	4.591	2378.47	1041.96	0.1919	13043455.
175	0.09	196.66	0.60	4.591	2378.68	1041.96	0.1918	13039519.
176	0.09	196.58	0.60	4.591	2379.12	1041.73	0.1917	13026128.

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 4 DATE 6/17/74 TIME= 4.26

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
177	0.08	196.49	0.60	4.591	2379.26	1041.51	0.1916	13017976.
178	0.09	196.41	0.60	4.591	2378.76	1041.29	0.1916	13021597.
179	0.08	196.41	0.60	4.591	2378.76	1041.29	0.1916	13021597.
180	0.08	196.36	0.60	4.591	2379.05	1041.14	0.1915	13012675.
181	0.08	196.36	0.60	4.591	2379.19	1041.14	0.1914	13010065.
182	0.09	196.36	0.60	4.591	2378.61	1041.14	0.1915	13020526.
183	0.09	196.33	0.60	4.591	2377.53	1041.07	0.1917	13038327.
184	0.09	196.27	0.60	4.591	2377.46	1040.92	0.1916	13035943.
185	0.08	196.22	0.60	4.591	2377.32	1040.78	0.1916	13034868.
186	0.09	196.19	0.60	4.591	2377.60	1040.70	0.1915	13027773.
187	0.08	196.22	0.60	4.591	2378.40	1040.78	0.1914	13015219.
188	0.08	196.13	0.60	4.591	2378.47	1040.55	0.1913	13008373.
189	0.08	196.05	0.60	4.591	2378.04	1040.33	0.1913	13010677.
190	0.09	195.94	0.60	4.591	2377.75	1040.04	0.1913	13008521.
191	0.09	195.94	0.60	4.591	2377.53	1040.04	0.1913	13012445.
192	0.09	195.85	0.60	4.591	2377.32	1039.81	0.1913	13010827.
193	0.09	195.85	0.60	4.591	2376.88	1039.81	0.1913	13018686.
194	0.09	195.74	0.60	4.591	2376.74	1039.52	0.1912	13013903.
195	0.09	195.69	0.60	4.591	2376.59	1039.37	0.1912	13012822.
196	0.08	195.63	0.60	4.591	2376.09	1039.22	0.1912	13018297.
197	0.08	195.52	0.60	4.591	2374.72	1038.93	0.1914	13035824.
198	0.08	195.49	0.60	4.591	2373.78	1038.85	0.1915	13051081.
199	0.09	195.38	0.60	4.591	2373.64	1038.56	0.1914	13046282.
200	0.08	195.21	0.60	4.591	2374.14	1038.11	0.1911	13025922.
201	0.09	195.10	0.60	4.591	2374.07	1037.82	0.1910	13019805.
202	0.09	195.02	0.60	4.591	2373.85	1037.60	0.1910	13018170.
203	0.09	194.91	0.60	4.591	2374.21	1037.30	0.1908	13004169.
204	0.08	194.68	0.60	4.591	2375.01	1036.71	0.1905	12974904.
205	0.09	194.43	0.60	4.591	2375.30	1036.04	0.1902	12952935.
206	0.08	194.29	0.60	4.591	2375.08	1035.67	0.1901	12947623.
207	0.09	194.10	0.59	4.591	2374.50	1035.15	0.1900	12945085.
208	0.08	193.43	0.59	4.591	2374.14	1033.37	0.1894	12907034.
209	0.09	191.43	0.59	4.591	2373.56	1028.00	0.1875	12783603.

PS 0.608 PO196.786 Q 1291.PSF MACH 4.590
 TO 584. RN/L 12981316. PHI 0.0

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 8 DATE 6/17/74 TIME= 6.56

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
1	10.13	206.32	0.63	4.591	2415.22	1067.23	0.1952	13006454.
2	10.13	206.46	0.63	4.591	2412.31	1067.59	0.1958	13067205.
3	10.12	206.65	0.63	4.591	2409.61	1068.09	0.1964	13128064.
4	10.13	206.85	0.63	4.591	2407.40	1068.59	0.1970	13180299.
5	10.13	207.07	0.63	4.591	2405.19	1069.17	0.1976	13234595.
6	10.12	207.18	0.64	4.591	2402.84	1069.46	0.1980	13284648.
7	10.12	207.29	0.64	4.591	2400.91	1069.74	0.1985	13327110.
8	10.13	207.35	0.64	4.591	2398.20	1069.89	0.1990	13380688.
9	10.13	207.35	0.64	4.591	2394.84	1069.89	0.1995	13442965.
10	10.13	207.35	0.64	4.591	2392.55	1069.89	0.1999	13485654.
11	10.13	207.35	0.64	4.591	2391.40	1069.89	0.2001	13507080.
12	10.13	207.26	0.64	4.591	2390.68	1069.67	0.2001	13515056.
13	10.13	207.26	0.64	4.591	2390.47	1069.67	0.2002	13519083.
14	10.13	207.26	0.64	4.591	2391.04	1069.67	0.2001	13508345.
15	10.13	207.21	0.64	4.591	2390.25	1069.53	0.2002	13519480.
16	10.13	207.18	0.64	4.591	2389.11	1069.46	0.2003	13539192.
17	10.13	207.12	0.64	4.591	2388.82	1069.31	0.2003	13540942.
18	10.13	207.12	0.64	4.591	2388.39	1069.31	0.2004	13549033.
19	10.14	207.18	0.64	4.591	2387.03	1069.46	0.2007	13578352.
20	10.14	207.18	0.64	4.591	2385.45	1069.46	0.2009	13608191.
21	10.14	207.18	0.64	4.591	2384.37	1069.46	0.2011	13628593.
22	10.14	207.21	0.64	4.591	2383.87	1069.53	0.2012	13639974.
23	10.15	207.12	0.64	4.591	2384.73	1069.31	0.2010	13618127.
24	10.13	207.10	0.63	4.591	2387.10	1069.24	0.2006	13571533.
25	10.13	207.21	0.64	4.591	2390.04	1069.53	0.2002	13523514.
26	10.13	207.18	0.64	4.591	2392.62	1069.46	0.1997	13473451.
27	10.13	207.21	0.64	4.591	2394.12	1069.53	0.1995	13447248.
28	10.13	207.24	0.64	4.591	2395.34	1069.60	0.1993	13426448.
29	10.12	207.21	0.64	4.591	2395.84	1069.53	0.1992	13415355.
30	10.13	207.21	0.64	4.591	2395.48	1069.53	0.1993	13421991.
31	10.13	207.21	0.64	4.591	2396.41	1069.53	0.1991	13404756.
32	10.12	207.21	0.64	4.591	2396.91	1069.53	0.1991	13395484.
33	10.13	207.21	0.64	4.591	2396.20	1069.53	0.1992	13408729.
34	10.12	207.21	0.64	4.591	2395.77	1069.53	0.1992	13416683.
35	10.13	207.24	0.64	4.591	2395.41	1069.60	0.1993	13425121.
36	10.13	207.26	0.64	4.591	2394.98	1069.67	0.1994	13434894.
37	10.13	207.21	0.64	4.591	2394.77	1069.53	0.1994	13435277.
38	10.13	207.26	0.64	4.591	2395.63	1069.67	0.1993	13422940.
39	10.13	207.21	0.64	4.591	2397.13	1069.53	0.1990	13391523.
40	10.12	207.21	0.64	4.591	2399.49	1069.53	0.1986	13346601.
41	10.13	207.21	0.64	4.591	2402.20	1069.53	0.1982	13298184.
42	10.13	207.24	0.64	4.591	2404.19	1069.60	0.1979	13263460.
43	10.12	207.26	0.64	4.591	2404.34	1069.67	0.1979	13262640.
44	10.12	207.18	0.64	4.591	2403.34	1069.46	0.1980	13275516.

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 8 DATE 6/17/74 TIME= 6.56

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
45	10.13	207.15	0.64	4.591	2402.70	1069.39	0.1980	13285470.
46	10.12	207.12	0.64	4.591	2402.48	1069.31	0.1981	13287599.
47	10.13	207.10	0.63	4.591	2402.27	1069.24	0.1981	13289729.
48	10.13	207.15	0.64	4.591	2403.05	1069.39	0.1980	13278947.
49	10.13	207.18	0.64	4.591	2404.27	1069.46	0.1978	13258598.
50	10.13	207.18	0.64	4.591	2404.62	1069.46	0.1978	13252097.
51	10.13	207.21	0.64	4.591	2405.05	1069.53	0.1977	13246085.
52	10.12	207.21	0.64	4.591	2405.12	1069.53	0.1977	13247886.
53	10.12	207.18	0.64	4.591	2403.34	1069.46	0.1980	13275516.
54	10.12	207.18	0.64	4.591	2400.84	1069.46	0.1984	13321262.
55	10.13	207.12	0.64	4.591	2399.20	1069.31	0.1986	13347884.
56	10.13	207.07	0.63	4.591	2399.99	1069.17	0.1984	13329841.
57	10.12	207.10	0.63	4.591	2402.34	1069.24	0.1981	13283427.
58	10.12	207.10	0.63	4.591	2404.55	1069.24	0.1977	13248052.
59	10.12	207.10	0.63	4.591	2406.05	1069.24	0.1974	13220823.
60	10.13	207.21	0.64	4.591	2406.05	1069.53	0.1975	13227935.
61	10.13	207.18	0.64	4.591	2405.83	1069.46	0.1976	13230041.
62	10.13	207.18	0.64	4.591	2405.69	1069.46	0.1976	13232631.
63	10.13	207.18	0.64	4.591	2405.26	1069.46	0.1976	13240410.
64	10.13	207.12	0.64	4.591	2404.34	1069.31	0.1977	13253734.
65	10.12	207.07	0.63	4.591	2403.77	1069.17	0.1978	13260574.
66	10.12	207.07	0.63	4.591	2404.12	1069.17	0.1977	13254067.
67	10.13	207.04	0.63	4.591	2404.91	1069.10	0.1976	13237999.
68	10.12	207.07	0.63	4.591	2404.55	1069.17	0.1977	13246270.
69	10.12	207.10	0.63	4.591	2403.05	1069.24	0.1979	13275381.
70	10.13	207.12	0.64	4.591	2401.77	1069.31	0.1982	13300665.
71	10.12	207.12	0.64	4.591	2400.27	1069.31	0.1984	13328176.
72	10.13	207.12	0.64	4.591	2398.49	1069.31	0.1987	13361045.
73	10.13	207.10	0.63	4.591	2397.27	1069.24	0.1989	13381678.
74	10.13	207.10	0.63	4.591	2397.77	1069.24	0.1988	13372434.
75	10.13	207.07	0.63	4.591	2399.13	1069.17	0.1986	13345606.
76	10.12	207.04	0.63	4.591	2400.56	1069.10	0.1983	13317553.
77	10.12	206.96	0.63	4.591	2401.91	1068.88	0.1980	13287329.
78	10.13	206.98	0.63	4.591	2403.55	1068.95	0.1977	13259128.
79	10.13	206.98	0.63	4.591	2404.27	1068.95	0.1976	13246127.
80	10.12	207.01	0.63	4.591	2403.98	1069.03	0.1977	13253109.
81	10.13	206.96	0.63	4.591	2402.48	1068.88	0.1979	13276833.
82	10.13	206.98	0.63	4.591	2401.27	1068.95	0.1981	13306877.
83	10.13	207.07	0.63	4.591	2400.41	1069.17	0.1983	13321971.
84	10.12	207.07	0.63	4.591	2400.41	1069.17	0.1983	13321971.
85	10.12	207.07	0.63	4.591	2400.99	1069.17	0.1982	13311433.
86	10.12	207.07	0.63	4.591	2401.63	1069.17	0.1981	13299709.
87	10.13	207.04	0.63	4.591	2402.48	1069.10	0.1980	13282241.
88	10.12	206.96	0.63	4.591	2403.34	1068.88	0.1978	13261247.

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VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 8 DATE 6/17/74 TIME= 6.56

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
89	10.12	207.24	0.64	4.591	2403.98	1069.60	0.1979	13267365.
90	10.13	206.98	0.63	4.591	2403.05	1068.95	0.1978	13268244.
91	10.13	206.93	0.63	4.591	2401.20	1068.81	0.1981	13298613.
92	10.13	206.98	0.63	4.591	2399.99	1068.95	0.1983	13324467.
93	10.13	207.01	0.63	4.591	2400.56	1069.03	0.1983	13315765.
94	10.13	206.96	0.63	4.591	2401.91	1068.88	0.1980	13287329.
95	10.12	206.90	0.63	4.591	2403.12	1068.74	0.1977	13261588.
96	10.12	206.90	0.63	4.591	2403.48	1068.74	0.1977	13255081.
97	10.12	206.87	0.63	4.591	2402.84	1068.67	0.1978	13265016.
98	10.13	206.87	0.63	4.591	2401.91	1068.67	0.1979	13281967.
99	10.12	206.93	0.63	4.591	2401.70	1068.81	0.1980	13289459.
100	10.12	206.87	0.63	4.591	2400.99	1068.67	0.1981	13298950.

PS 0.639 PO207.109 Q 1359.PSF MACH 4.591
 TO 593. RN/L 13341425. PHI 0.0

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 9 DATE 6/17/74 TIME= 6.98

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
1	10.13	206.65	0.63	4.591	2446.24	1068.09	0.1906	12490518.
2	10.12	206.73	0.63	4.591	2440.77	1068.31	0.1915	12588036.
3	10.13	206.87	0.63	4.591	2436.27	1068.67	0.1924	12673314.
4	10.12	207.07	0.63	4.591	2432.68	1069.17	0.1931	12747078.
5	10.12	207.21	0.64	4.591	2429.93	1069.53	0.1937	12803299.
6	10.12	207.35	0.64	4.591	2427.25	1069.89	0.1942	12858650.
7	10.12	207.37	0.64	4.591	2424.35	1069.96	0.1947	12911158.
8	10.12	207.37	0.64	4.591	2421.59	1069.96	0.1952	12959774.
9	10.13	207.43	0.64	4.591	2419.40	1070.10	0.1956	13002121.
10	10.12	207.43	0.64	4.591	2417.70	1070.10	0.1959	13032351.*
11	10.12	207.43	0.64	4.591	2416.07	1070.10	0.1961	13061436.
12	10.12	207.43	0.64	4.591	2414.79	1070.10	0.1963	13084276.
13	10.12	207.40	0.64	4.591	2413.66	1070.03	0.1965	13102872.
14	10.12	207.40	0.64	4.591	2412.52	1070.03	0.1967	13123279.
15	10.12	207.24	0.64	4.591	2411.31	1069.60	0.1967	13134430.
16	10.12	207.24	0.64	4.591	2409.75	1069.60	0.1970	13162637.
17	10.12	207.10	0.63	4.591	2407.76	1069.24	0.1972	13189815.
18	10.12	207.07	0.63	4.591	2405.90	1069.17	0.1974	13221633.
19	10.13	207.07	0.63	4.591	2404.91	1069.17	0.1976	13239781.
20	10.13	207.07	0.63	4.591	2404.34	1069.17	0.1977	13250168.
21	10.12	207.01	0.63	4.591	2403.91	1069.03	0.1977	13254406.
22	10.12	207.10	0.63	4.591	2402.91	1069.24	0.1980	13277988.
23	10.13	207.24	0.64	4.591	2401.20	1069.60	0.1984	13318293.
24	10.12	207.15	0.64	4.591	2398.20	1069.39	0.1988	13368112.
25	10.13	207.15	0.64	4.591	2394.55	1069.39	0.1994	13435652.
26	10.13	207.21	0.64	4.591	2391.40	1069.53	0.2000	13498015.
27	10.13	207.21	0.64	4.591	2388.82	1069.53	0.2004	13546403.
28	10.14	207.18	0.64	4.591	2386.09	1069.46	0.2008	13595968.
29	10.13	207.18	0.64	4.591	2384.23	1069.46	0.2012	13631322.
30	10.14	207.21	0.64	4.591	2382.86	1069.53	0.2014	13659089.
31	10.14	207.24	0.64	4.591	2382.21	1069.60	0.2015	13673240.
32	10.13	207.21	0.64	4.591	2381.71	1069.53	0.2016	13680994.
33	10.15	207.21	0.64	4.591	2381.20	1069.53	0.2017	13690591.
34	10.13	207.21	0.64	4.591	2381.85	1069.53	0.2016	13678253.
35	10.13	207.18	0.64	4.591	2382.72	1069.46	0.2014	13659982.
36	10.13	207.18	0.64	4.591	2383.51	1069.46	0.2013	13644957.
37	10.14	207.18	0.64	4.591	2384.15	1069.46	0.2012	13632683.
38	10.14	207.21	0.64	4.591	2385.02	1069.53	0.2010	13618177.
39	10.13	207.24	0.64	4.591	2385.66	1069.60	0.2010	13607770.
40	10.13	207.24	0.64	4.591	2386.09	1069.60	0.2009	13599623.
41	10.13	207.21	0.64	4.591	2386.74	1069.53	0.2008	13585595.
42	10.13	207.18	0.64	4.591	2387.31	1069.46	0.2006	13572938.
43	10.13	207.21	0.64	4.591	2387.46	1069.53	0.2006	13572063.
44	10.13	207.18	0.64	4.591	2388.18	1069.46	0.2005	13556725.

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 9 DATE 6/17/74 TIME= 6.98

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
45	10.13	207.18	0.64	4.591	2389.39	1069.46	0.2003	13533802.
46	10.12	207.12	0.64	4.591	2390.25	1069.31	0.2001	13514034.
47	10.13	207.15	0.64	4.591	2391.40	1069.39	0.1999	13494384.
48	10.13	207.15	0.64	4.591	2392.26	1069.39	0.1998	13478325.
49	10.13	207.12	0.64	4.591	2392.76	1069.31	0.1997	13467162.
50	10.13	207.15	0.64	4.591	2392.40	1069.39	0.1998	13475648.
51	10.13	207.12	0.64	4.591	2392.55	1069.31	0.1997	13471169.
52	10.13	207.18	0.64	4.591	2394.05	1069.46	0.1995	13446772.
53	10.13	207.18	0.64	4.591	2395.70	1069.46	0.1992	13416202.
54	10.12	207.18	0.64	4.591	2396.63	1069.46	0.1991	13398977.
55	10.12	207.24	0.64	4.591	2397.34	1069.60	0.1990	13389352.
56	10.12	207.18	0.64	4.591	2397.34	1069.46	0.1990	13385750.
57	10.13	207.21	0.64	4.591	2396.98	1069.53	0.1990	13394161.
58	10.12	207.15	0.64	4.591	2397.27	1069.39	0.1989	13385274.
59	10.12	207.12	0.64	4.591	2397.91	1069.31	0.1988	13371595.
60	10.12	207.12	0.64	4.591	2398.34	1069.31	0.1987	13363683.
61	10.12	207.18	0.64	4.591	2398.70	1069.46	0.1987	13360684.
62	10.12	207.18	0.64	4.591	2399.49	1069.46	0.1986	13346207.
63	10.12	207.18	0.64	4.591	2400.91	1069.46	0.1984	13319952.
64	10.12	207.24	0.64	4.591	2402.34	1069.60	0.1982	13297357.
65	10.12	207.26	0.64	4.591	2401.77	1069.67	0.1983	13309603.
66	10.13	207.18	0.64	4.591	2400.41	1069.46	0.1984	13329131.
67	10.12	207.12	0.64	4.591	2399.70	1069.31	0.1985	13338676.
68	10.12	207.07	0.63	4.591	2399.20	1069.17	0.1985	13344294.
69	10.12	207.07	0.63	4.591	2399.56	1069.17	0.1985	13337722.
70	10.12	207.10	0.63	4.591	2400.91	1069.24	0.1983	13314586.
71	10.13	207.07	0.63	4.591	2401.56	1069.17	0.1982	13301012.
72	10.13	207.07	0.63	4.591	2401.41	1069.17	0.1982	13303628.
73	10.12	207.10	0.63	4.591	2401.27	1069.24	0.1982	13308032.
74	10.12	207.12	0.64	4.591	2401.48	1069.31	0.1982	13305900.
75	10.12	207.12	0.64	4.591	2401.63	1069.31	0.1982	13303287.
76	10.12	207.12	0.64	4.591	2401.91	1069.31	0.1981	13298050.
77	10.13	207.18	0.64	4.591	2401.84	1069.46	0.1982	13302933.
78	10.12	207.12	0.64	4.591	2401.48	1069.31	0.1982	13305900.
79	10.12	207.10	0.63	4.591	2401.41	1069.24	0.1982	13305420.
80	10.12	206.98	0.63	4.591	2401.13	1068.95	0.1981	13303503.
81	10.12	207.07	0.63	4.591	2400.91	1069.17	0.1983	13312792.
82	10.13	207.10	0.63	4.591	2401.13	1069.24	0.1983	13310659.
83	10.12	207.10	0.63	4.591	2401.63	1069.24	0.1982	13301499.
84	10.12	207.07	0.63	4.591	2401.06	1069.17	0.1982	13310173.
85	10.12	207.07	0.63	4.591	2401.20	1069.17	0.1982	13307557.
86	10.12	207.07	0.63	4.591	2401.98	1069.17	0.1981	13293168.
87	10.12	207.04	0.63	4.591	2402.70	1069.10	0.1979	13278330.
88	10.12	207.04	0.63	4.591	2403.34	1069.10	0.1978	13266599.

VSD HIGH SPEED WIND TUNNEL TEST 498
RIIN 9 DATE 6/17/74 TIME= 6.98

PNT	ALPHA	PO	PS	MACH	V	VFAS	SIGMA	RN/L
89	10.12	207.04	0.63	4.591	2404.12	1069.10	0.1977	13252287.
90	10.13	207.01	0.63	4.591	2404.69	1069.03	0.1976	13240114.
91	10.12	207.07	0.63	4.591	2404.34	1069.17	0.1977	13250168.
92	10.12	207.07	0.63	4.591	2402.98	1069.17	0.1979	13274900.
93	10.12	207.07	0.63	4.591	2401.91	1069.17	0.1981	13294479.
94	10.12	207.04	0.63	4.591	2401.48	1069.10	0.1981	13300532.
95	10.12	207.04	0.63	4.591	2400.77	1069.10	0.1983	13313624.
96	10.12	207.07	0.63	4.591	2399.34	1069.17	0.1985	13341663.
97	10.13	206.98	0.63	4.591	2398.06	1068.95	0.1987	13359968.
98	10.12	206.98	0.63	4.591	2397.56	1068.95	0.1987	13369204.
99	10.12	207.01	0.63	4.591	2397.84	1069.03	0.1987	13365723.
100	10.13	206.98	0.63	4.591	2398.20	1068.95	0.1986	13357338.
101	10.13	207.01	0.63	4.591	2398.77	1069.03	0.1986	13348601.
102	10.12	207.04	0.63	4.591	2398.70	1069.10	0.1986	13351708.
103	10.13	207.07	0.63	4.591	2398.06	1069.17	0.1987	13365356.
104	10.12	206.98	0.63	4.591	2397.91	1068.95	0.1987	13362611.
105	10.12	207.01	0.63	4.591	2397.99	1069.03	0.1987	13363087.
106	10.12	207.15	0.64	4.591	2398.20	1069.39	0.1988	13368112.
107	10.13	206.98	0.63	4.591	2398.06	1068.95	0.1987	13359968.
108	10.12	206.96	0.63	4.591	2397.77	1068.88	0.1987	13363447.
109	10.13	206.96	0.63	4.591	2397.34	1068.88	0.1987	13371365.
110	10.12	206.90	0.63	4.591	2397.06	1068.74	0.1987	13373050.
111	10.12	206.87	0.63	4.591	2397.27	1068.67	0.1987	13367289.
112	10.12	206.93	0.63	4.591	2398.20	1068.81	0.1986	13353742.
113	10.12	206.93	0.63	4.591	2399.63	1068.81	0.1983	13327442.
114	10.13	206.93	0.63	4.591	2400.84	1068.81	0.1981	13305156.
115	10.12	206.93	0.63	4.591	2402.06	1068.81	0.1979	13282932.
116	10.12	206.96	0.63	4.591	2402.91	1068.88	0.1978	13269062.
117	10.12	206.93	0.63	4.591	2403.48	1068.81	0.1977	13256863.
118	10.12	207.01	0.63	4.591	2403.91	1069.03	0.1977	13254406.
119	10.12	206.87	0.63	4.591	2403.70	1068.67	0.1976	13249394.
120	10.12	206.98	0.63	4.591	2402.77	1068.95	0.1979	13273456.
121	10.12	207.04	0.63	4.591	2400.99	1069.10	0.1982	13309693.
122	10.12	206.98	0.63	4.591	2398.91	1068.95	0.1985	13344173.
123	10.13	206.87	0.63	4.591	2396.63	1068.67	0.1988	13379174.
124	10.13	206.87	0.63	4.591	2393.91	1068.67	0.1992	13429560.
125	10.13	206.87	0.63	4.591	2392.83	1068.67	0.1994	13449536.
126	10.12	206.87	0.63	4.591	2393.98	1068.67	0.1992	13424234.
127	10.13	206.90	0.63	4.591	2395.41	1068.74	0.1990	13403480.
128	10.12	206.90	0.63	4.591	2395.84	1068.74	0.1989	13395528.
129	10.13	206.87	0.63	4.591	2396.20	1068.67	0.1989	13387112.
130	10.12	206.82	0.63	4.591	2396.77	1068.52	0.1987	13372934.
131	10.13	206.73	0.63	4.591	2398.13	1068.31	0.1984	13342480.
132	10.12	206.73	0.63	4.591	2399.13	1068.31	0.1982	13324076.

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 9 DATE 6/17/74 TIME= 6.98

PNT	ALPHA	PO	PS	MACH	V	VFAS	SIGMA	RN/L
133	10.12	206.73	0.63	4.591	2400.06	1068.31	0.1981	13307019.
134	10.12	206.71	0.63	4.591	2400.56	1068.24	0.1980	13296063.
135	10.12	206.68	0.63	4.591	2400.91	1068.16	0.1979	13287736.
136	10.12	206.68	0.63	4.591	2400.91	1068.16	0.1979	13287736.
137	10.12	206.79	0.63	4.591	2400.91	1068.45	0.1980	13294896.
138	10.13	206.87	0.63	4.591	2400.77	1068.67	0.1981	13302882.
139	10.12	206.87	0.63	4.591	2400.56	1068.67	0.1981	13306811.
140	10.12	206.79	0.63	4.591	2400.49	1068.45	0.1981	13302745.
141	10.12	206.68	0.63	4.591	2399.77	1068.16	0.1981	13306682.
142	10.12	206.65	0.63	4.591	2398.41	1068.09	0.1983	13331828.
143	10.13	206.65	0.63	4.591	2397.27	1068.09	0.1985	13352893.
144	10.13	206.65	0.63	4.591	2396.20	1068.09	0.1986	13372694.
145	10.13	206.62	0.63	4.591	2395.55	1068.02	0.1987	13382797.
146	10.12	206.65	0.63	4.591	2394.91	1068.09	0.1989	13396518.
147	10.12	206.60	0.63	4.591	2394.48	1067.95	0.1989	13400866.
148	10.13	206.60	0.63	4.591	2394.55	1067.95	0.1989	13399541.
149	10.12	206.48	0.63	4.591	2395.20	1067.66	0.1986	13380400.
150	10.13	206.46	0.63	4.591	2395.91	1067.59	0.1985	13365370.
151	10.12	206.43	0.63	4.591	2396.63	1067.52	0.1984	13350365.
152	10.13	206.43	0.63	4.591	2397.13	1067.52	0.1983	13341143.
153	10.13	206.46	0.63	4.591	2397.20	1067.59	0.1983	13341625.
154	10.13	206.46	0.63	4.591	2397.20	1067.59	0.1983	13341625.
155	10.13	206.43	0.63	4.591	2396.77	1067.52	0.1983	13347733.
156	10.13	206.37	0.63	4.591	2395.98	1067.37	0.1984	13358644.
157	10.13	206.34	0.63	4.591	2394.98	1067.30	0.1985	13375348.
158	10.13	206.32	0.63	4.591	2394.19	1067.23	0.1986	13388108.
159	10.13	206.23	0.63	4.591	2393.62	1067.01	0.1987	13393301.
160	10.13	206.15	0.63	4.591	2393.26	1066.80	0.1986	13394506.
161	10.13	206.07	0.63	4.591	2392.40	1066.58	0.1987	13405020.
162	10.13	206.07	0.63	4.591	2390.33	1066.58	0.1991	13443674.
163	10.13	205.98	0.63	4.591	2388.39	1066.36	0.1993	13474362.
164	10.13	205.90	0.63	4.591	2387.17	1066.15	0.1994	13491732.
165	10.13	205.84	0.63	4.591	2386.88	1066.00	0.1994	13493465.
166	10.13	205.79	0.63	4.591	2387.24	1065.86	0.1993	13483094.
167	10.13	205.79	0.63	4.591	2387.10	1065.86	0.1993	13485785.
168	10.13	205.70	0.63	4.591	2386.67	1065.64	0.1993	13488379.
169	10.14	205.62	0.63	4.591	2386.09	1065.43	0.1993	13493663.
170	10.13	205.54	0.63	4.591	2386.38	1065.21	0.1992	13482798.
171	10.13	205.43	0.63	4.591	2387.53	1064.92	0.1989	13454017.
172	10.13	205.26	0.63	4.591	2388.61	1064.49	0.1986	13423011.
173	10.13	205.18	0.63	4.591	2389.25	1064.27	0.1984	13405536.
174	10.13	205.01	0.63	4.591	2389.18	1063.84	0.1982	13395953.
175	10.13	204.92	0.63	4.591	2388.53	1063.62	0.1982	13402494.
176	10.13	204.79	0.63	4.591	2388.46	1063.26	0.1981	13394722.

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 9 DATE 6/17/74 TIME= 6.98

PHT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
177	10.13	204.59	0.63	4.591	2388.89	1062.75	0.1979	13373988.
178	10.13	204.34	0.63	4.591	2389.39	1062.10	0.1975	13348313.
179	10.13	204.20	0.63	4.591	2389.18	1061.74	0.1974	13343195.
180	10.11	203.92	0.63	4.591	2388.46	1061.02	0.1973	13338277.
181	9.76	203.59	0.62	4.591	2388.18	1060.15	0.1970	13321732.
182	8.95	203.31	0.62	4.591	2388.03	1059.42	0.1968	13306164.
183	7.82	202.95	0.62	4.591	2387.67	1058.48	0.1965	13289093.
184	6.49	202.64	0.62	4.591	2387.31	1057.68	0.1962	13275654.
185	5.15	202.20	0.62	4.591	2386.67	1056.52	0.1959	13258370.

PS 0.638 PO206.710 Q 1357.PSF MACH 4.590
 TO 592. RN/L 13342244. PHI 0.0

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VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 10 DATE 6/17/74 TIME= 7.93

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
1	0.05	291.20	0.89	4.591	2570.10	1267.90	0.2433	14975671.
2	0.04	291.26	0.89	4.591	2565.63	1268.02	0.2442	15063477.
3	0.04	291.31	0.90	4.591	2563.83	1268.14	0.2446	15100823.
4	0.05	291.31	0.90	4.591	2560.21	1268.14	0.2453	15170166.
5	0.05	291.37	0.90	4.591	2555.53	1268.26	0.2462	15263780.
6	0.05	291.37	0.90	4.591	2550.22	1268.26	0.2473	15367278.
7	0.05	291.37	0.90	4.591	2543.83	1268.26	0.2485	15493329.
8	0.05	291.37	0.90	4.591	2536.21	1268.26	0.2500	15645570.
9	0.04	291.26	0.89	4.591	2528.83	1268.02	0.2514	15783818.
10	0.05	291.26	0.89	4.591	2521.71	1268.02	0.2528	15934869.
11	0.05	291.09	0.89	4.591	2515.24	1267.66	0.2540	16059781.
12	0.05	290.92	0.89	4.591	2510.40	1267.29	0.2548	16151955.
13	0.05	290.92	0.89	4.591	2504.80	1267.29	0.2559	16270406.
14	0.05	290.81	0.89	4.591	2498.36	1267.05	0.2572	16401742.
15	0.05	290.76	0.89	4.591	2493.14	1266.93	0.2582	16511258.
16	0.05	290.64	0.89	4.591	2488.60	1266.69	0.2590	16603793.
17	0.04	290.53	0.89	4.591	2483.84	1266.44	0.2599	16701826.
18	0.04	290.42	0.89	4.591	2479.49	1266.20	0.2607	16791680.
19	0.05	290.25	0.89	4.591	2475.83	1265.84	0.2614	16863683.
20	0.05	290.09	0.89	4.591	2473.13	1265.47	0.2618	16914464.
21	0.05	289.92	0.89	4.591	2470.08	1265.11	0.2623	16973368.
22	0.05	289.70	0.89	4.591	2466.81	1264.62	0.2628	17034114.
23	0.05	289.53	0.89	4.591	2463.90	1264.26	0.2632	17090660.
24	0.05	289.36	0.89	4.591	2460.97	1263.89	0.2637	17147565.
25	0.05	289.20	0.89	4.591	2457.91	1263.53	0.2642	17208045.
26	0.05	289.03	0.89	4.591	2455.47	1263.16	0.2646	17254403.
27	0.04	288.64	0.89	4.591	2453.23	1262.31	0.2647	17282813.
28	0.06	288.42	0.89	4.591	2451.48	1261.82	0.2649	17310006.
29	0.05	288.03	0.89	4.591	2449.32	1260.97	0.2650	17337021.
30	0.04	287.64	0.88	4.591	2447.50	1260.12	0.2650	17355973.
31	0.04	287.08	0.88	4.591	2446.17	1258.90	0.2648	17353421.
32	0.05	286.52	0.88	4.591	2444.76	1257.68	0.2646	17352478.
33	0.04	285.86	0.88	4.591	2442.80	1256.21	0.2644	17357884.
34	0.05	285.13	0.88	4.591	2440.70	1254.62	0.2642	17363189.
35	0.05	284.46	0.87	4.591	2438.38	1253.15	0.2641	17376820.
36	0.04	283.46	0.87	4.591	2435.42	1250.94	0.2638	17384911.
37	0.06	282.51	0.87	4.591	2432.82	1248.85	0.2635	17388104.
38	0.05	281.35	0.86	4.591	2431.48	1246.26	0.2627	17347600.
39	0.04	280.01	0.86	4.591	2430.56	1243.30	0.2616	17286684.
40	0.04	278.84	0.86	4.591	2429.51	1240.70	0.2607	17239237.
41	0.05	277.62	0.85	4.591	2428.17	1237.97	0.2599	17194736.
42	0.05	276.33	0.85	4.591	2426.26	1235.11	0.2591	17159885.
43	0.04	275.17	0.85	4.591	2424.42	1232.50	0.2584	17130040.
44	0.05	273.94	0.84	4.591	2422.51	1229.75	0.2576	17098191.

PS 0.888 PO287.441 Q 1887. PSF MACH 4.591
 TH 633. RN/L 16661562. PHI 0.0

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 11 DATE 6/17/74 TIME= 7.93

PNT	ALPHA	PO	PS	MACH	V	VFAS	SIGMA	RN/L
1	0.06	296.82	0.91	4.591	2691.77	1280.07	0.2261	13149284.
2	0.07	295.43	0.91	4.591	2698.45	1277.07	0.2239	12984223.
3	0.06	293.92	0.90	4.591	2694.38	1273.81	0.2235	12980687.
4	0.07	292.59	0.90	4.591	2684.12	1270.92	0.2241	13080571.
5	0.07	291.20	0.89	4.591	2668.05	1267.89	0.2258	13271652.
6	0.07	290.08	0.89	4.591	2648.06	1265.46	0.2283	13544389.
7	0.07	289.19	0.89	4.591	2624.47	1263.52	0.2317	13897973.
8	0.07	288.75	0.89	4.591	2603.09	1262.54	0.2352	14248079.
9	0.06	288.75	0.89	4.591	2588.04	1262.54	0.2379	14518134.
10	0.07	288.58	0.89	4.591	2578.82	1262.18	0.2395	14678594.
11	0.06	288.41	0.89	4.591	2572.23	1261.81	0.2406	14792351.
12	0.06	288.58	0.89	4.591	2567.10	1262.18	0.2417	14897268.
13	0.06	288.52	0.89	4.591	2563.36	1262.06	0.2424	14965127.
14	0.06	288.52	0.89	4.591	2559.48	1262.06	0.2431	15038986.
15	0.06	288.69	0.89	4.591	2551.83	1262.42	0.2447	15194785.
16	0.06	288.63	0.89	4.591	2543.02	1262.30	0.2463	15363884.
17	0.06	288.69	0.89	4.591	2535.87	1262.42	0.2478	15508524.
18	0.06	288.86	0.89	4.591	2530.86	1262.79	0.2489	15617783.
19	0.07	289.02	0.89	4.591	2528.22	1263.15	0.2496	15680143.
20	0.07	289.02	0.89	4.591	2526.93	1263.15	0.2498	15706236.
21	0.06	288.97	0.89	4.591	2524.29	1263.03	0.2503	15756995.
22	0.06	288.75	0.89	4.591	2519.12	1262.54	0.2511	15850475.
23	0.06	288.52	0.89	4.591	2513.13	1262.06	0.2521	15961972.
24	0.06	288.24	0.89	4.591	2506.37	1261.45	0.2533	16087594.
25	0.07	287.97	0.88	4.591	2500.55	1260.84	0.2542	16194717.
26	0.06	287.86	0.88	4.591	2495.68	1260.59	0.2551	16292097.
27	0.07	287.80	0.88	4.591	2491.49	1260.47	0.2559	16378877.
28	0.06	287.86	0.88	4.591	2488.19	1260.59	0.2566	16453416.
29	0.06	287.80	0.88	4.591	2484.40	1260.47	0.2574	16532649.
30	0.06	287.58	0.88	4.591	2480.12	1259.98	0.2581	16613531.
31	0.07	287.74	0.88	4.591	2475.97	1260.35	0.2591	16714751.
32	0.07	287.80	0.88	4.591	2472.43	1260.47	0.2599	16796510.
33	0.06	287.80	0.88	4.591	2469.66	1260.47	0.2604	16858535.
34	0.06	287.69	0.88	4.591	2467.37	1260.23	0.2608	16903454.
35	0.06	287.74	0.88	4.591	2465.56	1260.35	0.2613	16947445.
36	0.06	287.91	0.88	4.591	2463.55	1260.72	0.2618	17002939.
37	0.07	287.91	0.88	4.591	2461.60	1260.72	0.2623	17047205.
38	0.06	287.69	0.88	4.591	2459.72	1260.23	0.2625	17076864.
39	0.07	287.58	0.88	4.591	2458.12	1259.98	0.2627	17106879.
40	0.06	287.30	0.88	4.591	2456.65	1259.37	0.2627	17123843.
41	0.06	287.19	0.88	4.591	2455.19	1259.13	0.2630	17150834.
42	0.06	287.13	0.88	4.591	2454.07	1259.01	0.2631	17173193.
43	0.07	287.02	0.88	4.591	2452.88	1258.76	0.2633	17193891.
44	0.07	286.96	0.88	4.591	2451.62	1258.64	0.2635	17219492.

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 11 DATE 6/17/74 TIME= 7.93

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
45	0.06	286.85	0.88	4.591	2449.95	1258.40	0.2638	17251743.
46	0.07	286.74	0.88	4.591	2447.85	1258.15	0.2641	17293767.
47	0.06	286.52	0.88	4.591	2445.04	1257.67	0.2645	17345624.
48	0.07	286.35	0.88	4.591	2441.82	1257.30	0.2651	17411071.
49	0.06	286.18	0.88	4.591	2439.57	1256.93	0.2654	17453765.
50	0.07	285.91	0.88	4.591	2437.67	1256.32	0.2656	17481550.
51	0.06	285.41	0.88	4.591	2436.69	1255.22	0.2653	17474160.
52	0.06	285.18	0.88	4.591	2436.83	1254.73	0.2651	17457196.
53	0.06	284.85	0.88	4.591	2437.18	1253.99	0.2647	17428463.
54	0.06	283.90	0.87	4.591	2437.04	1251.91	0.2638	17373853.
55	0.06	282.23	0.87	4.591	2435.99	1248.22	0.2625	17296291.
56	0.06	280.51	0.86	4.591	2434.37	1244.40	0.2613	17228231.
57	0.07	279.89	0.86	4.591	2432.82	1243.04	0.2610	17226727.
58	0.06	281.79	0.87	4.591	2431.97	1247.23	0.2630	17363137.
59	0.07	284.51	0.87	4.591	2432.04	1253.26	0.2655	17529569.
60	0.06	286.24	0.88	4.591	2432.82	1257.05	0.2669	17617395.
61	0.06	286.85	0.88	4.591	2433.10	1258.40	0.2674	17648357.
62	0.07	287.13	0.88	4.591	2432.75	1259.01	0.2678	17673917.
63	0.06	286.85	0.88	4.591	2431.48	1258.40	0.2678	17687172.
64	0.06	286.69	0.88	4.591	2430.00	1258.03	0.2680	17712422.
65	0.07	286.35	0.88	4.591	2428.73	1257.30	0.2679	17722315.
66	0.06	285.96	0.88	4.591	2427.53	1256.44	0.2678	17727068.
67	0.06	285.63	0.88	4.591	2425.20	1255.71	0.2680	17762578.
68	0.06	285.24	0.88	4.591	2424.49	1254.85	0.2678	17755402.
69	0.06	284.90	0.88	4.591	2425.13	1254.12	0.2674	17719267.
70	0.07	284.40	0.87	4.591	2425.69	1253.01	0.2668	17674497.
71	0.06	283.90	0.87	4.591	2425.06	1251.91	0.2665	17658634.
72	0.06	283.18	0.87	4.591	2424.28	1250.31	0.2659	17632259.
73	0.06	282.51	0.87	4.591	2424.21	1248.84	0.2653	17592352.
74	0.07	281.62	0.87	4.591	2424.07	1246.87	0.2645	17540249.
75	0.06	280.62	0.86	4.591	2423.72	1244.64	0.2637	17486243.
76	0.06	279.45	0.86	4.591	2423.36	1242.05	0.2626	17421771.
77	0.06	278.22	0.85	4.591	2422.73	1239.32	0.2616	17360456.
78	0.06	277.11	0.85	4.591	2421.81	1236.84	0.2608	17312659.
79	0.06	275.77	0.85	4.591	2420.74	1233.85	0.2597	17254133.
80	0.06	274.60	0.84	4.591	2419.26	1231.24	0.2590	17215887.
81	0.07	273.43	0.84	4.591	2417.63	1228.61	0.2582	17180772.
82	0.06	272.26	0.84	4.591	2415.71	1225.98	0.2575	17152137.
83	0.06	271.04	0.83	4.591	2413.30	1223.22	0.2569	17131451.
84	0.07	270.04	0.83	4.591	2410.53	1220.96	0.2565	17133043.
85	0.06	268.76	0.83	4.591	2408.75	1218.06	0.2557	17093442.
86	0.07	267.70	0.82	4.591	2407.76	1215.66	0.2549	17049462.

PS 0.881 PO285.380 Q 1873.PSF MACH 4.591
 TO 634. RN/L 16534836. PIII 0.0

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 12 DATE 6/17/74 TIME= 8.29

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
1	10.13	305.45	0.94	4.591	2570.30	1298.55	0.2552	15704479.
2	10.13	305.51	0.94	4.591	2570.10	1298.67	0.2553	15711312.
3	10.13	305.62	0.94	4.591	2567.70	1298.90	0.2558	15764820.
4	10.13	305.73	0.94	4.591	2558.81	1299.14	0.2577	15949330.
5	10.14	305.73	0.94	4.591	2548.74	1299.14	0.2598	16155125.
6	10.13	305.62	0.94	4.591	2540.19	1298.90	0.2614	16326984.
7	10.13	305.56	0.94	4.591	2534.18	1298.79	0.2626	16450539.
8	10.13	305.45	0.94	4.591	2530.32	1298.55	0.2633	16526426.
9	10.13	305.56	0.94	4.591	2528.43	1298.79	0.2638	16572946.
10	10.13	305.45	0.94	4.591	2526.26	1298.55	0.2642	16613371.
11	10.13	305.39	0.94	4.591	2523.00	1298.43	0.2648	16680449.
12	10.14	305.17	0.94	4.591	2518.72	1297.96	0.2655	16760995.
13	10.14	305.12	0.94	4.591	2514.02	1297.84	0.2665	16860470.
14	10.14	304.95	0.94	4.591	2509.45	1297.48	0.2673	16951775.
15	10.14	304.95	0.94	4.591	2503.63	1297.48	0.2685	17080787.
16	10.13	304.95	0.94	4.591	2498.50	1297.48	0.2696	17196015.
17	10.14	304.95	0.94	4.591	2493.76	1297.48	0.2707	17303189.
18	10.14	304.95	0.94	4.591	2489.50	1297.48	0.2716	17400465.
19	10.13	305.00	0.94	4.591	2485.78	1297.60	0.2724	17489141.
20	10.13	305.00	0.94	4.591	2482.26	1297.60	0.2732	17570541.
21	10.14	304.84	0.94	4.591	2478.25	1297.25	0.2740	17654231.
22	10.13	304.78	0.94	4.591	2474.51	1297.13	0.2747	17738618.
23	10.14	304.56	0.94	4.591	2471.33	1296.65	0.2752	17800824.
24	10.14	304.45	0.94	4.591	2468.97	1296.42	0.2757	17850198.
25	10.13	304.39	0.94	4.591	2467.02	1296.30	0.2760	17893174.
26	10.13	304.34	0.94	4.591	2464.87	1296.18	0.2765	17941318.
27	10.13	304.23	0.94	4.591	2462.99	1295.94	0.2768	17979718.
28	10.13	304.23	0.94	4.591	2461.18	1295.94	0.2772	18023214.
29	10.13	304.06	0.93	4.591	2458.95	1295.59	0.2776	18067048.
30	10.13	303.84	0.93	4.591	2457.14	1295.11	0.2778	18097655.
31	10.13	303.78	0.93	4.591	2455.95	1294.99	0.2780	18123082.
32	10.14	303.50	0.93	4.591	2454.91	1294.40	0.2780	18131887.
33	10.14	303.39	0.93	4.591	2453.93	1294.16	0.2781	18148992.
34	10.13	303.17	0.93	4.591	2452.53	1293.69	0.2782	18169678.
35	10.13	302.83	0.93	4.591	2450.85	1292.97	0.2783	18190569.
36	10.13	302.67	0.93	4.591	2449.11	1292.62	0.2785	18223285.
37	10.13	302.50	0.93	4.591	2446.59	1292.26	0.2789	18275073.
38	10.13	302.16	0.93	4.591	2442.73	1291.55	0.2795	18349942.
39	10.12	301.78	0.93	4.591	2439.43	1290.71	0.2799	18408064.
40	10.13	301.39	0.93	4.591	2437.67	1289.88	0.2799	18427988.
41	10.13	300.94	0.92	4.591	2436.48	1288.93	0.2798	18430520.
42	10.12	300.49	0.92	4.591	2435.42	1287.97	0.2796	18429544.
43	10.13	299.83	0.92	4.591	2433.95	1286.54	0.2794	18425412.
44	10.12	299.10	0.92	4.591	2432.26	1284.99	0.2791	18423086.

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VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 12 DATE 6/17/74 TIME= 8.29

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
45	10.14	298.38	0.92	4.591	2431.55	1283.43	0.2785	18396071.
46	10.12	297.60	0.91	4.591	2431.13	1281.75	0.2779	18358542.
47	10.13	296.54	0.91	4.591	2430.07	1279.47	0.2772	18319549.
48	10.12	295.48	0.91	4.591	2428.24	1277.19	0.2766	18299726.
49	10.13	294.26	0.90	4.591	2426.33	1274.54	0.2759	18271155.
50	10.13	292.98	0.90	4.591	2424.99	1271.76	0.2750	18224885.
51	10.12	291.59	0.90	4.591	2422.94	1268.74	0.2741	18189009.

PS 0.935 PO302.830 Q 1988.PSF MACH 4.591
 TO 632. RN/L 17575077. PHI 0.0

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 13 DATE 6/17/74 TIME= 8.71

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
1	10.12	304.78	0.94	4.591	2554.59	1297.13	0.2578	15985577.
2	10.11	304.95	0.94	4.591	2560.82	1297.48	0.2567	15868147.
3	10.11	305.06	0.94	4.591	2560.08	1297.72	0.2569	15888783.
4	10.12	305.06	0.94	4.591	2555.26	1297.72	0.2579	15986520.
5	10.12	305.06	0.94	4.591	2549.68	1297.72	0.2590	16100466.
6	10.12	305.23	0.94	4.591	2545.85	1298.08	0.2599	16188383.
7	10.12	305.17	0.94	4.591	2540.39	1297.96	0.2610	16298955.
8	10.12	305.06	0.94	4.591	2532.22	1297.72	0.2626	16465079.
9	10.12	305.06	0.94	4.591	2525.58	1297.72	0.2640	16606719.
10	10.12	305.23	0.94	4.591	2516.88	1298.08	0.2659	16804065.
11	10.13	305.17	0.94	4.591	2505.55	1297.96	0.2683	17050551.
12	10.12	305.17	0.94	4.591	2495.41	1297.96	0.2705	17278395.
13	10.13	305.00	0.94	4.591	2488.87	1297.60	0.2718	17417840.
14	10.12	304.89	0.94	4.591	2483.29	1297.37	0.2729	17540132.
15	10.12	304.89	0.94	4.591	2477.42	1297.37	0.2742	17676868.
16	10.13	304.84	0.94	4.591	2472.37	1297.25	0.2753	17792503.
17	10.12	304.67	0.94	4.591	2467.79	1296.89	0.2761	17891331.
18	10.12	304.67	0.94	4.591	2463.90	1296.89	0.2770	17984342.
19	10.12	304.67	0.94	4.591	2460.69	1296.89	0.2777	18061356.
20	10.12	304.73	0.94	4.591	2458.60	1297.01	0.2782	18115188.
21	10.12	304.61	0.94	4.591	2457.35	1296.77	0.2784	18138998.
22	10.12	304.67	0.94	4.591	2456.16	1296.89	0.2788	18171137.
23	10.12	304.73	0.94	4.591	2454.91	1297.01	0.2791	18205067.
24	10.12	304.61	0.94	4.591	2453.58	1296.77	0.2793	18230800.
25	10.12	304.61	0.94	4.591	2452.11	1296.77	0.2796	18266708.
26	10.11	304.45	0.94	4.591	2450.23	1296.42	0.2799	18303016.
27	10.12	304.28	0.94	4.591	2448.20	1296.06	0.2802	18342936.
28	10.11	304.23	0.94	4.591	2446.10	1295.94	0.2806	18391483.
29	10.12	304.17	0.93	4.591	2444.20	1295.82	0.2810	18435035.
30	10.12	304.11	0.93	4.591	2443.43	1295.71	0.2811	18450839.
31	10.12	304.00	0.93	4.591	2442.73	1295.47	0.2812	18461522.
32	10.12	303.95	0.93	4.591	2442.03	1295.35	0.2813	18475616.
33	10.12	303.84	0.93	4.591	2440.84	1295.11	0.2815	18498612.
34	10.11	303.78	0.93	4.591	2439.01	1294.99	0.2819	18540890.
35	10.11	303.50	0.93	4.591	2436.83	1294.40	0.2821	18578540.
36	10.11	303.45	0.93	4.591	2435.71	1294.28	0.2823	18603447.
37	10.11	303.33	0.93	4.591	2435.07	1294.04	0.2824	18612566.
38	10.11	303.33	0.93	4.591	2434.65	1294.04	0.2825	18623209.
39	10.11	303.17	0.93	4.591	2433.74	1293.69	0.2825	18636037.
40	10.12	303.00	0.93	4.591	2431.20	1293.33	0.2829	18689935.
41	10.11	302.78	0.93	4.591	2428.10	1292.86	0.2835	18755051.
42	10.11	302.55	0.93	4.591	2425.06	1292.38	0.2840	18818813.
43	10.11	302.39	0.93	4.591	2423.29	1292.02	0.2842	18853734.
44	10.12	302.22	0.93	4.591	2423.01	1291.67	0.2841	18850586.

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 13 DATE 6/17/74 TIME= 8.71

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
45	10.11	301.94	0.93	4.591	2422.73	1291.07	0.2839	18840483.
46	10.11	301.61	0.93	4.591	2422.30	1290.36	0.2837	18830521.
47	10.12	301.27	0.93	4.591	2422.16	1289.64	0.2834	18813294.
48	10.11	300.88	0.92	4.591	2422.44	1288.81	0.2830	18781712.
49	10.11	300.38	0.92	4.591	2422.30	1287.73	0.2826	18754047.
50	10.11	299.88	0.92	4.591	2422.16	1286.66	0.2821	18726371.
51	10.11	299.16	0.92	4.591	2422.16	1285.11	0.2814	18681170.
52	10.11	298.55	0.92	4.591	2421.95	1283.79	0.2809	18648321.
53	10.11	297.82	0.92	4.591	2421.38	1282.23	0.2804	18617468.
54	10.09	297.04	0.91	4.591	2420.18	1280.55	0.2799	18599250.
55	9.78	296.04	0.91	4.591	2418.97	1278.39	0.2792	18566986.
56	9.00	294.76	0.91	4.591	2417.49	1275.62	0.2784	18524284.
57	7.88	293.65	0.90	4.591	2415.71	1273.21	0.2777	18499080.
58	6.55	292.31	0.90	4.591	2413.51	1270.31	0.2770	18470424.

PS 0.935 PO302.839 Q 1988.PSF MACH 4.591
 TO 623. RN/L 18004943. PHI 0.0

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 14 DATE 6/17/74 TIME= 9.16

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
1	0.07	235.24	0.72	4.591	2587.11	1139.57	0.1940	11841519.
2	0.07	233.07	0.77	4.591	2573.63	1134.30	0.1942	11932692.
3	0.07	231.06	0.71	4.591	2568.83	1129.41	0.1933	11901960.
4	0.07	228.89	0.70	4.591	2566.43	1124.09	0.1918	11825990.
5	0.07	227.05	0.70	4.591	2563.83	1119.57	0.1906	11769833.
6	0.07	225.49	0.69	4.591	2559.61	1115.72	0.1900	11751686.
7	0.08	223.77	0.69	4.591	2552.51	1111.44	0.1896	11767646.
8	0.06	221.82	0.68	4.591	2543.16	1106.59	0.1893	11805329.
9	0.06	219.98	0.67	4.591	2532.83	1102.00	0.1893	11863860.
10	0.07	218.14	0.67	4.591	2523.20	1097.39	0.1891	11911813.
11	0.07	216.58	0.66	4.591	2516.67	1093.46	0.1887	11927152.
12	0.07	215.03	0.66	4.591	2512.31	1089.52	0.1880	11908605.
13	0.07	213.47	0.65	4.591	2506.10	1085.56	0.1876	11918376.
14	0.07	211.85	0.65	4.591	2496.44	1081.45	0.1876	11978653.
15	0.07	210.46	0.65	4.591	2485.50	1077.89	0.1880	12072369.
16	0.07	209.24	0.64	4.591	2476.52	1074.75	0.1883	12145416.
17	0.07	208.29	0.64	4.591	2469.31	1072.31	0.1885	12206696.
18	0.07	207.62	0.64	4.591	2464.10	1070.59	0.1887	12252262.
19	0.07	207.29	0.64	4.591	2459.86	1069.73	0.1891	12302081.
20	0.08	207.01	0.63	4.591	2455.19	1069.01	0.1895	12362604.
21	0.07	207.06	0.63	4.591	2450.85	1069.16	0.1903	12437977.
22	0.07	207.06	0.63	4.591	2446.73	1069.16	0.1909	12507196.
23	0.07	207.17	0.64	4.591	2442.17	1069.44	0.1917	12590987.
24	0.07	207.29	0.64	4.591	2437.96	1069.73	0.1925	12669643.
25	0.07	207.45	0.64	4.591	2434.79	1070.16	0.1931	12734266.
26	0.07	207.62	0.64	4.591	2431.76	1070.59	0.1938	12796927.
27	0.07	207.79	0.64	4.591	2428.94	1071.02	0.1944	12856342.
28	0.07	207.95	0.64	4.591	2426.61	1071.45	0.1949	12907473.
29	0.07	207.95	0.64	4.591	2424.71	1071.45	0.1952	12941017.
30	0.08	207.95	0.64	4.591	2422.94	1071.45	0.1955	12972205.
31	0.07	207.95	0.64	4.591	2421.38	1071.45	0.1958	12999756.
32	0.08	207.90	0.64	4.591	2419.54	1071.31	0.1960	13028954.
33	0.07	207.73	0.64	4.591	2417.27	1070.88	0.1962	13058870.
34	0.07	207.68	0.64	4.591	2415.00	1070.74	0.1965	13095948.
35	0.07	207.68	0.64	4.591	2413.30	1070.74	0.1968	13126522.
36	0.07	207.68	0.64	4.591	2411.03	1070.74	0.1972	13167476.
37	0.07	207.62	0.64	4.591	2408.32	1070.59	0.1976	13212853.
38	0.08	207.62	0.64	4.591	2406.19	1070.59	0.1979	13251676.
39	0.07	207.68	0.64	4.591	2404.27	1070.74	0.1983	13290346.
40	0.08	207.68	0.64	4.591	2402.34	1070.74	0.1986	13325618.
41	0.07	207.62	0.64	4.591	2400.27	1070.59	0.1989	13360101.
42	0.08	207.73	0.64	4.591	2397.99	1070.88	0.1994	13409485.
43	0.08	207.68	0.64	4.591	2395.20	1070.74	0.1998	13457649.
44	0.08	207.73	0.64	4.591	2392.62	1070.88	0.2003	13509337.

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VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 14 DATE 6/17/74 TIME= 9.16

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
45	0.08	207.79	0.64	4.591	2389.82	1071.02	0.2008	13565389.
46	0.08	207.68	0.64	4.591	2387.31	1070.74	0.2011	13605442.
47	0.08	207.68	0.64	4.591	2385.59	1070.74	0.2014	13638053.
48	0.08	207.68	0.64	4.591	2383.87	1070.74	0.2017	13670797.
49	0.08	207.62	0.64	4.591	2382.72	1070.59	0.2018	13689023.
50	0.08	207.62	0.64	4.591	2382.07	1070.59	0.2019	13701371.
51	0.08	207.68	0.64	4.591	2380.92	1070.74	0.2022	13727040.
52	0.09	207.56	0.64	4.591	2379.76	1070.45	0.2023	13741721.
53	0.09	207.73	0.64	4.591	2378.76	1070.88	0.2026	13772128.
54	0.09	207.68	0.64	4.591	2378.47	1070.74	0.2026	13773975.
55	0.09	207.79	0.64	4.591	2378.76	1071.02	0.2027	13775819.
56	0.08	207.84	0.64	4.591	2379.40	1071.17	0.2026	13767063.
57	0.09	207.84	0.64	4.591	2380.70	1071.17	0.2024	13742213.
58	0.08	207.73	0.64	4.591	2383.00	1070.88	0.2019	13690888.
59	0.09	207.79	0.64	4.591	2385.66	1071.02	0.2015	13644001.
60	0.08	207.62	0.64	4.591	2388.61	1070.59	0.2008	13577433.
61	0.08	207.79	0.64	4.591	2391.83	1071.02	0.2005	13527715.
62	0.08	207.68	0.64	4.591	2393.55	1070.74	0.2001	13488323.
63	0.08	207.73	0.64	4.591	2394.62	1070.88	0.1999	13471915.
64	0.09	207.73	0.64	4.591	2394.91	1070.88	0.1999	13466585.
65	0.08	207.68	0.64	4.591	2395.27	1070.74	0.1998	13456313.
66	0.09	207.68	0.64	4.591	2396.63	1070.74	0.1996	13431064.
67	0.08	207.73	0.64	4.591	2398.70	1070.88	0.1993	13396268.
68	0.08	207.68	0.64	4.591	2399.63	1070.74	0.1991	13375534.
69	0.08	207.68	0.64	4.591	2399.99	1070.74	0.1990	13368946.
70	0.08	207.68	0.64	4.591	2401.91	1070.74	0.1987	13333481.
71	0.07	207.73	0.64	4.591	2404.41	1070.88	0.1983	13291302.
72	0.08	207.68	0.64	4.591	2405.69	1070.74	0.1981	13264317.
73	0.07	207.68	0.64	4.591	2405.62	1070.74	0.1981	13265619.
74	0.07	207.68	0.64	4.591	2405.12	1070.74	0.1981	13274718.
75	0.08	207.68	0.64	4.591	2405.69	1070.74	0.1981	13264317.
76	0.07	207.68	0.64	4.591	2406.05	1070.74	0.1980	13257826.
77	0.08	207.68	0.64	4.591	2405.41	1070.74	0.1981	13269514.
78	0.07	207.79	0.64	4.591	2404.27	1071.02	0.1984	13297472.
79	0.07	207.68	0.64	4.591	2403.62	1070.74	0.1984	13302086.
80	0.07	207.68	0.64	4.591	2403.34	1070.74	0.1984	13307309.
81	0.07	207.68	0.64	4.591	2404.27	1070.74	0.1983	13290346.
82	0.07	207.51	0.64	4.591	2405.83	1070.31	0.1979	13251057.
83	0.07	207.62	0.64	4.591	2406.97	1070.59	0.1978	13237419.
84	0.07	207.62	0.64	4.591	2407.54	1070.59	0.1977	13227066.
85	0.07	207.68	0.64	4.591	2407.04	1070.74	0.1977	13221565.
86	0.07	207.68	0.64	4.591	2407.40	1070.74	0.1978	13233198.
87	0.08	207.73	0.64	4.591	2407.04	1070.88	0.1979	13243222.
88	0.07	207.62	0.64	4.591	2407.47	1070.59	0.1977	13228360.

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 14 DATE 6/17/74 TIME= 9.16

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
89	0.08	207.68	0.64	4.591	2407.68	1070.74	0.1977	13228021.
90	0.08	207.68	0.64	4.591	2406.76	1070.74	0.1979	13244857.
91	0.08	207.68	0.64	4.591	2405.62	1070.74	0.1981	13265619.
92	0.08	207.68	0.64	4.591	2405.26	1070.74	0.1981	13272116.
93	0.08	207.62	0.64	4.591	2405.48	1070.59	0.1980	13264664.
94	0.08	207.62	0.64	4.591	2404.98	1070.59	0.1981	13273761.
95	0.08	207.62	0.64	4.591	2404.48	1070.59	0.1982	13282872.
96	0.08	207.62	0.64	4.591	2404.84	1070.59	0.1981	13276367.
97	0.07	207.68	0.64	4.591	2405.48	1070.74	0.1981	13268219.
98	0.07	207.56	0.64	4.591	2406.05	1070.45	0.1979	13250717.
99	0.08	207.62	0.64	4.591	2406.83	1070.59	0.1978	13240013.
100	0.07	207.45	0.64	4.591	2407.47	1070.16	0.1975	13217717.
101	0.08	207.51	0.64	4.591	2407.26	1070.31	0.1976	13225149.
102	0.08	207.62	0.64	4.591	2406.76	1070.59	0.1978	13241307.
103	0.07	207.62	0.64	4.591	2405.90	1070.59	0.1980	13256869.
104	0.08	207.62	0.64	4.591	2404.84	1070.59	0.1981	13276367.
105	0.08	207.62	0.64	4.591	2403.12	1070.59	0.1984	13307662.
106	0.08	207.68	0.64	4.591	2401.84	1070.74	0.1987	13334788.
107	0.07	207.62	0.64	4.591	2401.56	1070.59	0.1987	13336461.
108	0.08	207.62	0.64	4.591	2402.34	1070.59	0.1986	13322046.
109	0.07	207.51	0.64	4.591	2403.77	1070.31	0.1982	13288780.
110	0.07	207.51	0.64	4.591	2404.41	1070.31	0.1981	13277052.
111	0.07	207.45	0.64	4.591	2404.84	1070.16	0.1980	13265686.
112	0.07	207.51	0.64	4.591	2405.41	1070.31	0.1979	13258842.
113	0.08	207.51	0.64	4.591	2406.05	1070.31	0.1978	13247165.
114	0.07	207.51	0.64	4.591	2406.19	1070.31	0.1978	13244571.
115	0.07	207.45	0.64	4.591	2406.12	1070.16	0.1978	13242309.
116	0.08	207.51	0.64	4.591	2406.62	1070.31	0.1977	13236792.
117	0.07	207.45	0.64	4.591	2406.97	1070.16	0.1976	13226766.
118	0.07	207.45	0.64	4.591	2406.62	1070.16	0.1977	13233240.
119	0.07	207.40	0.64	4.591	2406.19	1070.02	0.1977	13237463.
120	0.07	207.56	0.64	4.591	2405.62	1070.45	0.1980	13258504.
121	0.07	207.62	0.64	4.591	2404.41	1070.59	0.1982	13284178.
122	0.07	207.62	0.64	4.591	2403.12	1070.59	0.1984	13307662.
123	0.07	207.62	0.64	4.591	2402.77	1070.59	0.1985	13314197.
124	0.07	207.51	0.64	4.591	2403.34	1070.31	0.1983	13296607.
125	0.07	207.51	0.64	4.591	2403.77	1070.31	0.1982	13288780.
126	0.08	207.56	0.64	4.591	2403.41	1070.45	0.1983	13296867.
127	0.07	207.45	0.64	4.591	2402.34	1070.16	0.1984	13311328.
128	0.08	207.40	0.64	4.591	2401.70	1070.02	0.1984	13319532.
129	0.07	207.40	0.64	4.591	2401.70	1070.02	0.1984	13319532.
130	0.07	207.34	0.64	4.591	2402.70	1069.88	0.1982	13297651.
131	0.08	207.45	0.64	4.591	2403.62	1070.16	0.1982	13287821.
132	0.07	207.40	0.64	4.591	2403.62	1070.02	0.1981	13284255.

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 14 DATE 6/17/74 TIME= 9.16

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
133	0.07	207.45	0.64	4.591	2403.41	1070.16	0.1982	13291735.
134	0.08	207.45	0.64	4.591	2403.34	1070.16	0.1982	13293037.
135	0.07	207.34	0.64	4.591	2403.41	1069.88	0.1981	13284597.
136	0.07	207.45	0.64	4.591	2402.84	1070.16	0.1983	13302181.
137	0.08	207.45	0.64	4.591	2400.99	1070.16	0.1986	13336217.
138	0.07	207.45	0.64	4.591	2399.77	1070.16	0.1988	13358555.
139	0.07	207.29	0.64	4.591	2399.56	1069.73	0.1987	13351746.
140	0.08	207.23	0.64	4.591	2399.20	1069.59	0.1987	13354737.
141	0.07	207.29	0.64	4.591	2398.84	1069.73	0.1988	13364907.
142	0.07	207.23	0.64	4.591	2399.13	1069.59	0.1987	13356052.
143	0.08	207.23	0.64	4.591	2399.91	1069.59	0.1986	13341583.
144	0.07	207.23	0.64	4.591	2400.84	1069.59	0.1984	13324525.
145	0.07	207.17	0.64	4.591	2401.34	1069.44	0.1983	13311772.
146	0.07	207.29	0.64	4.591	2401.56	1069.73	0.1984	13315001.
147	0.07	207.17	0.64	4.591	2401.91	1069.44	0.1982	13301306.
148	0.07	207.23	0.64	4.591	2402.20	1069.59	0.1982	13299649.
149	0.07	207.17	0.64	4.591	2402.41	1069.44	0.1981	13292160.
150	0.07	207.17	0.64	4.591	2402.13	1069.44	0.1982	13297383.
151	0.07	207.23	0.64	4.591	2401.48	1069.59	0.1983	13312731.
152	0.07	207.12	0.64	4.591	2401.13	1069.30	0.1983	13312124.
153	0.07	207.12	0.64	4.591	2401.13	1069.30	0.1983	13312124.
154	0.07	207.06	0.63	4.591	2401.48	1069.16	0.1982	13301999.
155	0.07	207.06	0.63	4.591	2401.91	1069.16	0.1981	13294156.
156	0.07	207.06	0.63	4.591	2401.84	1069.16	0.1981	13295462.
157	0.08	207.01	0.63	4.591	2401.34	1069.01	0.1981	13301038.
158	0.07	207.01	0.63	4.591	2400.56	1069.01	0.1983	13315442.
159	0.07	207.01	0.63	4.591	2400.13	1069.01	0.1983	13323308.
160	0.07	206.90	0.63	4.591	2399.99	1068.73	0.1982	13318766.
161	0.07	206.84	0.63	4.591	2398.99	1068.58	0.1984	13333562.
162	0.07	206.95	0.63	4.591	2397.63	1068.87	0.1987	13365764.
163	0.07	207.01	0.63	4.591	2395.98	1069.01	0.1990	13399769.
164	0.07	207.06	0.63	4.591	2394.55	1069.16	0.1993	13429913.
165	0.08	206.90	0.63	4.591	2393.84	1068.73	0.1993	13432376.
166	0.07	206.90	0.63	4.591	2393.05	1068.73	0.1994	13447022.
167	0.07	206.90	0.63	4.591	2392.62	1068.73	0.1995	13455025.
168	0.07	206.90	0.63	4.591	2393.05	1068.73	0.1994	13447022.
169	0.07	206.84	0.63	4.591	2393.77	1068.58	0.1992	13430088.
170	0.07	206.84	0.63	4.591	2394.27	1068.58	0.1991	13420781.
171	0.07	206.73	0.63	4.591	2394.41	1068.29	0.1990	13410898.
172	0.07	206.73	0.63	4.591	2395.05	1068.29	0.1989	13399959.
173	0.07	206.73	0.63	4.591	2395.98	1068.29	0.1987	13381744.
174	0.07	206.67	0.63	4.591	2396.63	1068.15	0.1986	13366247.
175	0.07	206.67	0.63	4.591	2396.91	1068.15	0.1985	13360966.
176	0.07	206.62	0.63	4.591	2396.70	1068.01	0.1985	13361327.

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 14 DATE 6/17/74 TIME= 9.16

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
177	0.07	206.62	0.63	4.591	2396.48	1068.01	0.1986	13365284.
178	0.07	206.56	0.63	4.591	2396.63	1067.86	0.1985	13359045.
179	0.07	206.45	0.63	4.591	2396.98	1067.57	0.1983	13345251.
180	0.06	206.45	0.63	4.591	2397.27	1067.57	0.1983	13339980.
181	0.06	206.34	0.63	4.591	2397.41	1067.29	0.1981	13330153.
182	0.07	206.23	0.63	4.591	2397.49	1067.00	0.1980	13321645.
183	0.07	206.28	0.63	4.591	2397.20	1067.14	0.1981	13330504.
184	0.06	206.23	0.63	4.591	2396.34	1067.00	0.1982	13342713.
185	0.07	206.23	0.63	4.591	2395.41	1067.00	0.1984	13359873.
186	0.07	206.12	0.63	4.591	2395.05	1066.71	0.1983	13359265.
187	0.07	206.23	0.63	4.591	2395.27	1067.00	0.1984	13362510.
188	0.06	206.06	0.63	4.591	2395.41	1066.57	0.1982	13349051.
189	0.07	205.95	0.63	4.591	2394.98	1066.28	0.1982	13349758.
190	0.07	205.95	0.63	4.591	2394.12	1066.28	0.1983	13365622.
191	0.07	205.89	0.63	4.591	2392.98	1066.13	0.1984	13383208.
192	0.07	205.73	0.63	4.591	2391.76	1065.70	0.1985	13394923.
193	0.07	205.56	0.63	4.591	2391.62	1065.27	0.1983	13386699.
194	0.07	205.50	0.63	4.591	2392.12	1065.12	0.1982	13373778.
195	0.07	205.39	0.63	4.591	2392.62	1064.84	0.1980	13357257.
196	0.07	205.23	0.63	4.591	2392.76	1064.40	0.1978	13343750.
197	0.08	205.11	0.63	4.591	2392.62	1064.11	0.1978	13339154.
198	0.06	205.00	0.63	4.591	2392.19	1063.82	0.1977	13339851.
199	0.06	204.89	0.63	4.591	2391.62	1063.54	0.1977	13343185.
200	0.07	204.72	0.63	4.591	2391.19	1063.10	0.1976	13340254.
201	0.07	204.39	0.63	4.591	2391.12	1062.23	0.1973	13319813.
202	0.06	204.17	0.63	4.591	2390.97	1061.66	0.1971	13307938.
203	0.07	204.00	0.63	4.591	2390.47	1061.22	0.1970	13306301.
204	0.06	203.78	0.62	4.591	2390.04	1060.64	0.1969	13299705.
205	0.07	203.33	0.62	4.591	2389.61	1059.48	0.1965	13278552.
206	0.07	203.00	0.62	4.591	2389.32	1058.61	0.1963	13262011.
207	0.07	202.55	0.62	4.591	2388.82	1057.45	0.1959	13242130.
208	0.07	202.00	0.62	4.591	2388.39	1055.99	0.1954	13213621.
209	0.07	201.50	0.62	4.591	2387.67	1054.68	0.1951	13193973.
210	0.07	200.99	0.62	4.591	2387.03	1053.37	0.1947	13172977.
211	0.07	200.38	0.61	4.591	2386.02	1051.77	0.1943	13151185.
212	0.07	199.55	0.61	4.591	2385.02	1049.57	0.1936	13114692.
213	0.07	198.82	0.61	4.591	2384.15	1047.67	0.1930	13082797.
214	0.07	198.04	0.61	4.591	2383.43	1045.61	0.1924	13044542.
215	0.07	197.32	0.60	4.591	2382.72	1043.70	0.1918	13009817.
216	0.07	196.48	0.60	4.591	2381.92	1041.49	0.1911	12969093.
217	0.08	195.87	0.60	4.591	2381.06	1039.86	0.1907	12944228.
218	0.08	194.93	0.60	4.591	2380.27	1037.35	0.1899	12895889.
219	0.07	194.26	0.60	4.591	2379.05	1035.57	0.1894	12873639.
220	0.08	193.48	0.59	4.591	2377.82	1033.49	0.1889	12843917.

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VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 14 DATE 6/17/74 TIME= 9.16

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
221	0.08	192.87	0.59	4.591	2376.45	1031.85	0.1885	12827760.
222	0.08	191.97	0.59	4.591	2375.15	1029.46	0.1878	12791689.
223	0.08	191.25	0.59	4.591	2373.64	1027.52	0.1873	12770495.
224	0.08	190.58	0.58	4.591	2371.76	1025.73	0.1870	12759358.
225	0.08	189.86	0.58	4.591	2369.88	1023.78	0.1866	12744407.

PS 0.640 PO207.258 Q 1360.PSF MACH 4.590
 TO 598. RN/L 13166539. PHI 0.0

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 15 DATE 6/18/74 TIME= 8.21

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
1	10.09	207.78	0.64	4.591	2425.62	1070.99	0.1949	12913742.
2	10.11	208.05	0.64	4.591	2423.50	1071.71	0.1955	12968425.
3	10.10	208.39	0.64	4.591	2420.32	1072.57	0.1963	13045753.
4	10.11	208.56	0.64	4.591	2416.64	1073.00	0.1971	13122074.
5	10.10	208.67	0.64	4.591	2413.73	1073.29	0.1977	13181441.
6	10.11	208.83	0.64	4.591	2411.52	1073.72	0.1982	13231849.
7	10.11	208.89	0.64	4.591	2409.25	1073.86	0.1986	13276742.
8	10.11	208.89	0.64	4.591	2406.19	1073.86	0.1991	13332667.
9	10.11	208.89	0.64	4.591	2402.48	1073.86	0.1997	13400831.
10	10.11	208.83	0.64	4.591	2399.13	1073.72	0.2002	13459365.
11	10.11	208.72	0.64	4.591	2396.20	1073.43	0.2006	13506733.
12	10.11	208.72	0.64	4.591	2393.55	1073.43	0.2011	13556276.
13	10.11	208.56	0.64	4.591	2391.26	1073.00	0.2013	13588486.
14	10.11	208.44	0.64	4.591	2388.89	1072.71	0.2016	13625857.
15	10.11	208.44	0.64	4.591	2386.52	1072.71	0.2020	13670730.
16	10.11	208.39	0.64	4.591	2384.23	1072.57	0.2023	13710819.
17	10.12	208.28	0.64	4.591	2382.14	1072.28	0.2026	13743315.
18	10.12	208.39	0.64	4.591	2380.56	1072.57	0.2030	13781016.
19	10.12	208.39	0.64	4.591	2378.76	1072.57	0.2033	13815648.
20	10.12	208.39	0.64	4.591	2377.32	1072.57	0.2035	13843462.
21	10.12	208.39	0.64	4.591	2376.38	1072.57	0.2037	13861591.
22	10.12	208.39	0.64	4.591	2376.23	1072.57	0.2037	13864381.
23	10.12	208.39	0.64	4.591	2375.73	1072.57	0.2038	13874167.
24	10.12	208.44	0.64	4.591	2374.94	1072.71	0.2040	13893273.
25	10.12	208.39	0.64	4.591	2375.30	1072.57	0.2039	13882559.
26	10.12	208.39	0.64	4.591	2376.38	1072.57	0.2037	13861591.
27	10.12	208.44	0.64	4.591	2376.74	1072.71	0.2037	13858314.
28	10.12	208.44	0.64	4.591	2376.09	1072.71	0.2038	13870886.
29	10.12	208.39	0.64	4.591	2375.30	1072.57	0.2039	13882559.
30	10.13	208.39	0.64	4.591	2374.72	1072.57	0.2039	13893762.
31	10.12	208.39	0.64	4.591	2373.71	1072.57	0.2041	13913410.
32	10.12	208.39	0.64	4.591	2372.34	1072.57	0.2044	13940143.
33	10.12	208.28	0.64	4.591	2371.33	1072.28	0.2044	13952435.
34	10.12	208.22	0.64	4.591	2370.31	1072.14	0.2045	13968496.
35	10.13	208.28	0.64	4.591	2369.37	1072.28	0.2048	13990651.
36	10.12	208.28	0.64	4.591	2368.58	1072.28	0.2049	14006265.
37	10.12	208.28	0.64	4.591	2368.87	1072.28	0.2048	14000587.
38	10.12	208.28	0.64	4.591	2369.66	1072.28	0.2047	13984979.
39	10.12	208.22	0.64	4.591	2370.24	1072.14	0.2046	13969909.
40	10.12	208.28	0.64	4.591	2370.60	1072.28	0.2045	13966569.
41	10.12	208.28	0.64	4.591	2370.60	1072.28	0.2045	13966569.
42	10.11	208.22	0.64	4.591	2371.76	1072.14	0.2043	13940240.
43	10.12	208.22	0.64	4.591	2374.00	1072.14	0.2039	13896643.
44	10.12	208.22	0.64	4.591	2375.73	1072.14	0.2036	13863049.

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 15 DATE 6/18/74 TIME= 8.21

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
45	10.12	208.22	0.64	4.591	2376.23	1072.14	0.2035	13853270.
46	10.12	208.28	0.64	4.591	2376.38	1072.28	0.2036	13854187.
47	10.11	208.22	0.64	4.591	2376.59	1072.14	0.2035	13846300.
48	10.11	208.22	0.64	4.591	2376.88	1072.14	0.2034	13840726.
49	10.11	208.39	0.64	4.591	2377.60	1072.57	0.2035	13837890.
50	10.11	208.22	0.64	4.591	2378.54	1072.14	0.2031	13808740.
51	10.11	208.17	0.64	4.591	2378.97	1072.00	0.2030	13796726.
52	10.12	208.22	0.64	4.591	2378.25	1072.14	0.2032	13814290.
53	10.12	208.22	0.64	4.591	2378.11	1072.14	0.2032	13817075.
54	10.11	208.17	0.64	4.591	2379.12	1072.00	0.2030	13793957.
55	10.11	208.28	0.64	4.591	2380.34	1072.28	0.2029	13777799.
56	10.11	208.22	0.64	4.591	2380.92	1072.14	0.2027	13763071.
57	10.11	208.22	0.64	4.591	2380.84	1072.14	0.2027	13764450.
58	10.11	208.17	0.64	4.591	2380.34	1072.00	0.2028	13770435.
59	10.12	208.17	0.64	4.591	2379.69	1072.00	0.2029	13782874.
60	10.11	208.22	0.64	4.591	2378.90	1072.14	0.2031	13801806.
61	10.11	208.17	0.64	4.591	2377.89	1072.00	0.2032	13817541.
62	10.12	208.17	0.64	4.591	2377.75	1072.00	0.2032	13820327.
63	10.12	208.22	0.64	4.591	2377.82	1072.14	0.2033	13822633.
64	10.12	208.22	0.64	4.591	2377.89	1072.14	0.2032	13821238.
65	10.12	208.22	0.64	4.591	2378.32	1072.14	0.2032	13812907.
66	10.12	208.28	0.64	4.591	2378.32	1072.28	0.2032	13816598.
67	10.11	208.22	0.64	4.591	2378.76	1072.14	0.2031	13804574.
68	10.12	208.17	0.64	4.591	2379.48	1072.00	0.2029	13781027.
69	10.11	208.22	0.64	4.591	2379.98	1072.14	0.2029	13781030.
70	10.11	208.17	0.64	4.591	2379.76	1072.00	0.2029	13781497.
71	10.11	208.22	0.64	4.591	2379.12	1072.14	0.2030	13797646.
72	10.12	208.11	0.64	4.591	2378.04	1071.85	0.2031	13811070.
73	10.12	208.28	0.64	4.591	2377.53	1072.28	0.2034	13831887.
74	10.11	208.28	0.64	4.591	2377.75	1072.28	0.2033	13827717.
75	10.11	208.11	0.64	4.591	2377.96	1071.85	0.2031	13812459.
76	10.11	208.22	0.64	4.591	2377.68	1072.14	0.2033	13825413.
77	10.12	208.22	0.64	4.591	2376.67	1072.14	0.2035	13844901.
78	10.11	208.22	0.64	4.591	2375.95	1072.14	0.2036	13858856.
79	10.11	208.22	0.64	4.591	2376.09	1072.14	0.2036	13856066.
80	10.11	208.22	0.64	4.591	2376.52	1072.14	0.2035	13847695.
81	10.12	208.11	0.64	4.591	2376.67	1071.85	0.2033	13837497.
82	10.11	208.17	0.64	4.591	2377.10	1072.00	0.2033	13832843.
83	10.11	208.11	0.64	4.591	2377.75	1071.85	0.2032	13816630.
84	10.11	208.11	0.64	4.591	2378.47	1071.85	0.2030	13802745.
85	10.11	208.22	0.64	4.591	2378.76	1072.14	0.2031	13804574.
86	10.12	208.28	0.64	4.591	2378.61	1072.28	0.2032	13811042.
87	10.11	208.11	0.64	4.591	2377.68	1071.85	0.2032	13818019.
88	10.11	208.22	0.64	4.591	2376.16	1072.14	0.2035	13854671.

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 15 DATE 6/18/74 TIME= 8.21

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
89	10.12	208.22	0.64	4.591	2375.01	1072.14	0.2037	13877022.
90	10.12	208.28	0.64	4.591	2374.50	1072.28	0.2039	13890541.
91	10.11	208.22	0.64	4.591	2374.65	1072.14	0.2038	13884024.
92	10.12	208.22	0.64	4.591	2374.94	1072.14	0.2037	13878431.
93	10.12	208.17	0.64	4.591	2375.59	1072.00	0.2036	13862133.
94	10.12	208.28	0.64	4.591	2375.95	1072.28	0.2036	13862561.
95	10.12	208.17	0.64	4.591	2376.02	1072.00	0.2035	13853750.
96	10.12	208.17	0.64	4.591	2376.16	1072.00	0.2035	13850964.
97	10.12	208.11	0.64	4.591	2376.31	1071.85	0.2034	13844467.
98	10.12	208.05	0.64	4.591	2376.45	1071.71	0.2033	13837977.
99	10.12	208.28	0.64	4.591	2376.59	1072.28	0.2035	13850003.
100	10.11	208.22	0.64	4.591	2376.59	1072.14	0.2035	13846300.
101	10.11	208.22	0.64	4.591	2376.38	1072.14	0.2035	13850482.
102	10.12	208.17	0.64	4.591	2376.45	1072.00	0.2034	13845385.
103	10.12	208.17	0.64	4.591	2375.95	1072.00	0.2035	13855151.
104	10.12	208.05	0.64	4.591	2375.15	1071.71	0.2035	13863099.
105	10.12	208.11	0.64	4.591	2374.36	1071.85	0.2037	13882204.
106	10.13	208.22	0.64	4.591	2373.13	1072.14	0.2041	13913497.
107	10.12	208.11	0.64	4.591	2371.98	1071.85	0.2041	13928562.
108	10.12	208.22	0.64	4.591	2371.76	1072.14	0.2043	13940240.
109	10.12	208.11	0.64	4.591	2372.34	1071.85	0.2041	13921521.
110	10.12	208.22	0.64	4.591	2373.20	1072.14	0.2040	13912088.
111	10.12	208.22	0.64	4.591	2373.71	1072.14	0.2040	13902261.
112	10.13	208.22	0.64	4.591	2373.78	1072.14	0.2039	13900852.
113	10.12	208.22	0.64	4.591	2373.28	1072.14	0.2040	13910685.
114	10.13	208.11	0.64	4.591	2372.70	1071.85	0.2040	13914484.
115	10.12	208.11	0.64	4.591	2372.48	1071.85	0.2041	13918711.
116	10.12	208.00	0.64	4.591	2372.70	1071.57	0.2039	13907038.
117	10.12	208.11	0.64	4.591	2372.91	1071.85	0.2040	13910269.
118	10.12	208.00	0.64	4.591	2372.91	1071.57	0.2039	13902825.
119	10.12	208.05	0.64	4.591	2372.70	1071.71	0.2040	13910763.
120	10.12	208.05	0.64	4.591	2372.84	1071.71	0.2039	13907955.
121	10.12	208.05	0.64	4.591	2372.91	1071.71	0.2039	13906546.
122	10.12	208.05	0.64	4.591	2372.77	1071.71	0.2040	13909356.
123	10.12	208.22	0.64	4.591	2372.34	1072.14	0.2042	13928970.
124	10.13	208.17	0.64	4.591	2371.76	1072.00	0.2042	13936510.
125	10.12	208.05	0.64	4.591	2370.60	1071.71	0.2043	13951637.
126	10.12	208.17	0.64	4.591	2370.10	1072.00	0.2045	13969004.
127	10.13	208.11	0.64	4.591	2370.46	1071.85	0.2044	13958196.
128	10.12	208.11	0.64	4.591	2370.96	1071.85	0.2043	13948305.
129	10.12	208.11	0.64	4.591	2371.33	1071.85	0.2043	13941247.
130	10.12	208.11	0.64	4.591	2371.47	1071.85	0.2042	13938429.
131	10.12	208.00	0.64	4.591	2371.40	1071.57	0.2041	13932376.
132	10.12	207.94	0.64	4.591	2370.96	1071.42	0.2042	13937109.

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VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 15 DATE 6/18/74 TIME= 8.21

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
133	10.12	207.78	0.64	4.591	2370.31	1070.99	0.2041	13938615.
134	10.12	207.89	0.64	4.591	2369.88	1071.28	0.2043	13954561.
135	10.12	207.83	0.64	4.591	2369.52	1071.14	0.2043	13957896.
136	10.12	207.89	0.64	4.591	2369.08	1071.28	0.2044	13970135.
137	10.13	207.89	0.64	4.591	2368.65	1071.28	0.2045	13978638.
138	10.12	207.94	0.64	4.591	2368.22	1071.42	0.2046	13990899.
139	10.12	207.94	0.64	4.591	2367.78	1071.42	0.2047	13999422.
140	10.12	207.83	0.64	4.591	2367.42	1071.14	0.2047	13999031.
141	10.12	207.89	0.64	4.591	2367.20	1071.28	0.2048	14007058.
142	10.13	207.78	0.64	4.591	2367.06	1070.99	0.2047	14002397.
143	10.12	207.78	0.64	4.591	2367.13	1070.99	0.2047	14000974.
144	10.12	207.66	0.64	4.591	2367.06	1070.71	0.2046	13994891.
145	10.12	207.78	0.64	4.591	2366.41	1070.99	0.2048	14015215.
146	10.12	207.55	0.64	4.591	2365.97	1070.42	0.2046	14008735.
147	10.13	207.61	0.64	4.591	2365.97	1070.56	0.2047	14012494.
148	10.12	207.66	0.64	4.591	2365.90	1070.71	0.2048	14017677.
149	10.12	207.50	0.64	4.591	2365.68	1070.28	0.2046	14010678.
150	10.12	207.61	0.64	4.591	2365.39	1070.56	0.2048	14023905.
151	10.12	207.61	0.64	4.591	2365.18	1070.56	0.2048	14028187.
152	10.12	207.61	0.64	4.591	2365.18	1070.56	0.2048	14028187.
153	10.12	207.61	0.64	4.591	2365.39	1070.56	0.2048	14023905.
154	10.12	207.55	0.64	4.591	2365.68	1070.42	0.2047	14014437.
155	10.13	207.55	0.64	4.591	2365.90	1070.42	0.2047	14010160.
156	10.12	207.50	0.64	4.591	2365.97	1070.28	0.2046	14004977.
157	10.13	207.50	0.64	4.591	2365.68	1070.28	0.2046	14010678.
158	10.12	207.44	0.64	4.591	2365.03	1070.13	0.2047	14019753.
159	10.12	207.27	0.64	4.591	2364.67	1069.70	0.2046	14015600.
160	10.12	207.27	0.64	4.591	2364.52	1069.70	0.2046	14018453.
161	10.13	207.16	0.64	4.591	2364.31	1069.41	0.2045	14015207.
162	10.12	207.11	0.63	4.591	2364.09	1069.27	0.2045	14015721.
163	10.13	207.22	0.64	4.591	2363.65	1069.56	0.2047	14031837.
164	10.13	207.05	0.63	4.591	2363.22	1069.13	0.2046	14029108.
165	10.13	207.11	0.63	4.591	2362.49	1069.27	0.2048	14047203.
166	10.13	207.05	0.63	4.591	2361.77	1069.13	0.2049	14057776.
167	10.13	207.00	0.63	4.591	2361.11	1068.98	0.2049	14066925.
168	10.13	206.83	0.63	4.591	2360.68	1068.55	0.2048	14064196.
169	10.13	206.72	0.63	4.591	2360.90	1068.26	0.2047	14052309.
170	10.12	206.61	0.63	4.591	2361.33	1067.98	0.2045	14036135.
171	10.12	206.44	0.63	4.591	2361.77	1067.54	0.2043	14016191.
172	10.13	206.33	0.63	4.591	2362.06	1067.26	0.2041	14002909.
173	10.13	206.22	0.63	4.591	2362.06	1066.97	0.2040	13995348.
174	10.13	206.22	0.63	4.591	2361.91	1066.97	0.2040	13998213.
175	10.12	206.11	0.63	4.591	2361.77	1066.68	0.2039	13993510.
176	10.12	206.05	0.63	4.591	2361.40	1066.54	0.2039	13996874.

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 15 DATE 6/18/74 TIME= 8.21

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
177	10.13	205.83	0.63	4.591	2361.04	1065.96	0.2038	13988892.
178	10.12	205.77	0.63	4.591	2360.68	1065.82	0.2038	13992260.
179	10.13	205.60	0.63	4.591	2359.95	1065.38	0.2038	13995205.
180	10.12	205.21	0.63	4.591	2359.44	1064.37	0.2035	13978686.
181	10.13	204.99	0.63	4.591	2359.08	1063.79	0.2033	13970661.
182	10.12	204.71	0.63	4.591	2358.94	1063.07	0.2030	13954551.
183	10.12	204.32	0.63	4.591	2358.50	1062.06	0.2027	13936547.

PS 0.642 PD207.915 Q 1364.PSF MACH 4.590
 TD 580. RN/L 13861341. PHI 0.0

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 16 DATE 6/18/74 TIME= 8.91

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
1	10.04	296.20	0.91	4.591	2514.70	1278.73	0.2585	16353048.
2	10.08	296.25	0.91	4.591	2499.52	1278.85	0.2617	16683064.
3	10.09	296.42	0.91	4.591	2490.87	1279.21	0.2637	16883111.
4	10.11	296.47	0.91	4.591	2491.42	1279.33	0.2636	16874060.
5	10.12	296.70	0.91	4.591	2496.03	1279.81	0.2629	16784940.
6	10.11	296.70	0.91	4.591	2500.42	1279.81	0.2619	16688668.
7	10.12	296.75	0.91	4.591	2502.74	1279.93	0.2615	16641025.
8	10.11	296.70	0.91	4.591	2500.42	1279.81	0.2619	16688668.
9	10.11	296.53	0.91	4.591	2491.56	1279.45	0.2636	16874181.
10	10.11	296.53	0.91	4.591	2478.39	1279.45	0.2665	17169948.
11	10.12	296.47	0.91	4.591	2464.66	1279.33	0.2694	17482671.
12	10.11	296.53	0.91	4.591	2453.86	1279.45	0.2718	17740267.
13	10.12	296.36	0.91	4.591	2446.94	1279.09	0.2732	17895915.
14	10.11	296.36	0.91	4.591	2442.80	1279.09	0.2741	17995872.
15	10.10	296.25	0.91	4.591	2439.78	1278.85	0.2747	18062541.
16	10.11	296.25	0.91	4.591	2436.48	1278.85	0.2754	18143373.
17	10.10	296.36	0.91	4.591	2433.88	1279.09	0.2761	18214291.
18	10.11	296.47	0.91	4.591	2431.48	1279.33	0.2768	18280387.
19	10.11	296.53	0.91	4.591	2429.08	1279.45	0.2774	18343411.
20	10.11	296.42	0.91	4.591	2426.47	1279.21	0.2779	18401723.
21	10.11	296.36	0.91	4.591	2424.07	1279.09	0.2784	18458511.
22	10.10	296.25	0.91	4.591	2421.95	1278.85	0.2788	18504998.
23	10.11	295.97	0.91	4.591	2419.97	1278.25	0.2790	18537649.
24	10.11	296.14	0.91	4.591	2417.70	1278.61	0.2796	18605616.
25	10.11	296.20	0.91	4.591	2415.93	1278.73	0.2801	18654268.
26	10.11	296.20	0.91	4.591	2414.72	1278.73	0.2804	18685069.
27	10.11	296.08	0.91	4.591	2413.51	1278.49	0.2806	18708931.
28	10.11	296.08	0.91	4.591	2412.09	1278.49	0.2809	18745360.
29	10.11	296.03	0.91	4.591	2410.32	1278.37	0.2812	18787553.
30	10.10	296.03	0.91	4.591	2408.75	1278.37	0.2816	18827929.
31	10.10	295.81	0.91	4.591	2407.19	1277.88	0.2818	18854266.
32	10.11	295.81	0.91	4.591	2405.76	1277.88	0.2821	18891207.
33	10.11	295.81	0.91	4.591	2404.62	1277.88	0.2824	18920851.
34	10.11	295.97	0.91	4.591	2403.34	1278.25	0.2828	18964991.
35	10.10	295.92	0.91	4.591	2402.13	1278.12	0.2831	18993107.
36	10.11	295.97	0.91	4.591	2400.91	1278.25	0.2834	19028471.
37	10.12	295.81	0.91	4.591	2399.91	1277.88	0.2835	19043956.
38	10.12	295.75	0.91	4.591	2398.99	1277.76	0.2836	19064775.
39	10.12	295.69	0.91	4.591	2397.99	1277.64	0.2838	19087517.
40	10.12	295.69	0.91	4.591	2396.77	1277.64	0.2841	19119583.
41	10.11	295.64	0.91	4.591	2395.41	1277.52	0.2844	19151912.
42	10.12	295.58	0.91	4.591	2394.55	1277.40	0.2845	19171057.
43	10.12	295.47	0.91	4.591	2394.05	1277.16	0.2845	19177117.
44	10.12	295.42	0.91	4.591	2393.55	1277.04	0.2846	19186804.

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 16 DATE 6/18/74 TIME= 8.91

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
45	10.12	295.30	0.91	4.591	2392.98	1276.80	0.2846	19194783.
46	10.12	295.19	0.91	4.591	2392.48	1276.56	0.2847	19200866.
47	10.13	294.91	0.91	4.591	2392.05	1275.96	0.2845	19194178.
48	10.13	294.80	0.91	4.591	2391.55	1275.72	0.2845	19200274.
49	10.12	294.69	0.91	4.591	2390.97	1275.48	0.2845	19208268.
50	10.13	294.53	0.91	4.591	2390.40	1275.12	0.2845	19212642.
51	10.12	294.41	0.90	4.591	2389.75	1274.87	0.2845	19222568.
52	10.12	294.19	0.90	4.591	2389.25	1274.39	0.2845	19221407.
53	10.13	293.86	0.90	4.591	2388.61	1273.67	0.2843	19216787.
54	10.12	293.63	0.90	4.591	2388.03	1273.19	0.2842	19217516.
55	10.13	293.41	0.90	4.591	2387.24	1272.70	0.2842	19224003.
56	10.12	293.24	0.90	4.591	2386.45	1272.34	0.2842	19234142.
57	10.13	292.97	0.90	4.591	2385.73	1271.74	0.2841	19235065.
58	10.13	292.80	0.90	4.591	2385.45	1271.37	0.2840	19231780.

PS 0.913 PO295.674 Q 1941.PSF MACH 4.591
 TO 605. RN/L 18454902. PHI 0.0

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 17 DATE 6/18/74 TIME= 9.39

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
1	10.09	296.47	0.91	4.591	2529.92	1279.33	0.2557	16049184.
2	10.12	296.59	0.91	4.591	2530.05	1279.57	0.2557	16052403.
3	10.12	296.75	0.91	4.591	2528.29	1279.93	0.2562	16097983.
4	10.12	296.81	0.91	4.591	2523.00	1280.05	0.2574	16211470.
5	10.13	297.03	0.91	4.591	2512.86	1280.53	0.2596	16438439.
6	10.13	297.03	0.91	4.591	2501.65	1280.53	0.2620	16680516.
7	10.12	297.03	0.91	4.591	2494.03	1280.53	0.2636	16847823.
8	10.13	297.03	0.91	4.591	2488.81	1280.53	0.2647	16964023.
9	10.12	296.81	0.91	4.591	2483.91	1280.05	0.2655	17061005.
10	10.12	296.70	0.91	4.591	2478.80	1279.81	0.2665	17170190.
11	10.12	296.70	0.91	4.591	2473.06	1279.81	0.2678	17301419.
12	10.13	296.47	0.91	4.591	2465.56	1279.33	0.2692	17461618.
13	10.12	296.53	0.91	4.591	2458.12	1279.45	0.2709	17639436.
14	10.11	296.64	0.91	4.591	2450.50	1279.69	0.2727	17826993.
15	10.12	296.53	0.91	4.591	2443.64	1279.45	0.2741	17985596.
16	10.12	296.64	0.91	4.591	2438.52	1279.69	0.2753	18117228.
17	10.11	296.70	0.91	4.591	2434.16	1279.81	0.2764	18227865.
18	10.12	296.70	0.91	4.591	2429.65	1279.81	0.2774	18339682.
19	10.11	296.86	0.91	4.591	2425.34	1280.17	0.2786	18457732.
20	10.12	296.53	0.91	4.591	2421.81	1279.45	0.2791	18525957.
21	10.11	296.36	0.91	4.591	2418.90	1279.09	0.2796	18588998.
22	10.11	296.36	0.91	4.591	2416.92	1279.09	0.2800	18639464.
23	10.11	296.47	0.91	4.591	2415.50	1279.33	0.2805	18682674.
24	10.11	296.47	0.91	4.591	2414.58	1279.33	0.2807	18706266.
25	10.11	296.47	0.91	4.591	2413.44	1279.33	0.2809	18735374.
26	10.11	296.47	0.91	4.591	2412.24	1279.33	0.2812	18766388.
27	10.12	296.42	0.91	4.591	2411.17	1279.21	0.2814	18790295.
28	10.11	296.36	0.91	4.591	2409.53	1279.09	0.2817	18828945.
29	10.11	296.31	0.91	4.591	2407.40	1278.97	0.2822	18880657.
30	10.11	296.20	0.91	4.591	2405.41	1278.73	0.2826	18925362.
31	10.11	296.20	0.91	4.591	2403.70	1278.73	0.2830	18969950.
32	10.11	296.08	0.91	4.591	2401.98	1278.49	0.2833	19007568.
33	10.11	295.92	0.91	4.591	2400.41	1278.13	0.2835	19037998.
34	10.11	295.97	0.91	4.591	2399.13	1278.25	0.2838	19075370.
35	10.12	295.92	0.91	4.591	2398.20	1278.13	0.2840	19096241.
36	10.11	295.86	0.91	4.591	2397.41	1278.00	0.2841	19113387.
37	10.11	295.75	0.91	4.591	2396.63	1277.76	0.2842	19126957.
38	10.12	295.75	0.91	4.591	2395.84	1277.76	0.2844	19147759.
39	10.11	295.69	0.91	4.591	2394.77	1277.64	0.2846	19172585.
40	10.12	295.69	0.91	4.591	2393.77	1277.64	0.2848	19199177.
41	10.12	295.58	0.91	4.591	2392.76	1277.40	0.2850	19218601.
42	10.12	295.42	0.91	4.591	2391.47	1277.04	0.2851	19242064.
43	10.12	295.42	0.91	4.591	2389.82	1277.04	0.2855	19286084.
44	10.12	295.14	0.91	4.591	2388.61	1276.44	0.2855	19300533.

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 17 DATE 6/18/74 TIME= 9.39

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
45	10.12	295.14	0.91	4.591	2388.03	1276.44	0.2857	19315909.
46	10.11	294.64	0.91	4.591	2387.89	1275.36	0.2852	19286955.
47	10.12	294.86	0.91	4.591	2387.89	1275.84	0.2854	19301533.
48	10.12	294.69	0.91	4.591	2387.96	1275.48	0.2852	19288672.
49	10.11	294.64	0.91	4.591	2387.67	1275.36	0.2853	19292716.
50	10.13	294.47	0.90	4.591	2387.39	1275.00	0.2852	19289470.
51	10.12	294.19	0.90	4.591	2386.67	1274.39	0.2851	19290462.
52	10.12	293.97	0.90	4.591	2386.17	1273.91	0.2850	19289317.
53	10.12	293.75	0.90	4.591	2385.88	1273.43	0.2848	19282403.
54	10.12	293.58	0.90	4.591	2385.45	1273.06	0.2848	19282976.
55	10.12	293.41	0.90	4.591	2385.02	1272.70	0.2847	19283556.
56	10.12	293.02	0.90	4.591	2384.51	1271.86	0.2844	19271417.
57	10.12	292.58	0.90	4.591	2383.87	1270.89	0.2842	19259448.
58	10.12	292.30	0.90	4.591	2383.29	1270.29	0.2840	19256517.
59	10.12	291.74	0.90	4.591	2382.64	1269.07	0.2836	19237158.
60	10.12	291.30	0.90	4.591	2381.85	1268.11	0.2834	19228962.
61	10.12	290.57	0.89	4.591	2380.99	1266.53	0.2829	19204261.
62	10.13	290.52	0.89	4.591	2380.92	1266.41	0.2829	19202511.

PS 0.912 PO295.458 Q 1939.PSF MACH 4.591
 TO 604. RN/L 18513819. PHI 0.0

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 OF POOR QUALITY

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 18 DATE 6/18/74 TIME= 9.86

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
1	9.99	295.86	0.91	4.591	2556.60	1278.00	0.2498	15478036.
2	10.06	295.86	0.91	4.591	2548.00	1278.00	0.2515	15648524.
3	10.09	295.97	0.91	4.591	2542.21	1278.25	0.2528	15770815.
4	10.11	296.03	0.91	4.591	2531.81	1278.37	0.2549	15985968.
5	10.11	296.20	0.91	4.591	2515.72	1278.73	0.2583	16331354.
6	10.12	296.31	0.91	4.591	2499.52	1278.97	0.2618	16686198.
7	10.12	296.31	0.91	4.591	2486.12	1278.97	0.2646	16982693.
8	10.12	296.31	0.91	4.591	2478.46	1278.97	0.2662	17155483.
9	10.12	296.42	0.91	4.591	2476.66	1279.21	0.2667	17202849.
10	10.12	296.42	0.91	4.591	2478.18	1279.21	0.2664	17168214.
11	10.13	296.20	0.91	4.591	2476.94	1278.73	0.2665	17183618.
12	10.12	296.25	0.91	4.591	2475.07	1278.85	0.2669	17229473.
13	10.12	296.20	0.91	4.591	2471.60	1278.73	0.2676	17305612.
14	10.12	296.20	0.91	4.591	2465.77	1278.73	0.2689	17440376.
15	10.12	296.20	0.91	4.591	2458.39	1278.73	0.2705	17612993.
16	10.12	296.25	0.91	4.591	2451.62	1278.85	0.2721	17776853.
17	10.11	296.36	0.91	4.591	2446.59	1279.09	0.2733	17904349.
18	10.12	296.25	0.91	4.591	2443.01	1278.85	0.2740	17984016.
19	10.12	296.03	0.91	4.591	2439.92	1278.37	0.2745	18045536.
20	10.12	296.03	0.91	4.591	2436.83	1278.37	0.2752	18121111.
21	10.11	295.86	0.91	4.591	2433.52	1278.00	0.2758	18192166.
22	10.11	295.86	0.91	4.591	2430.28	1278.00	0.2765	18272308.
23	10.11	295.86	0.91	4.591	2427.25	1278.00	0.2772	18347761.
24	10.12	296.03	0.91	4.591	2424.92	1278.37	0.2779	18416430.
25	10.12	295.97	0.91	4.591	2422.37	1278.25	0.2784	18476910.
26	10.11	296.03	0.91	4.591	2419.82	1278.37	0.2790	18544720.
27	10.11	296.20	0.91	4.591	2417.63	1278.73	0.2797	18610921.
28	10.11	295.86	0.91	4.591	2415.57	1278.00	0.2799	18642270.
29	10.10	295.86	0.91	4.591	2413.80	1278.00	0.2803	18687584.
30	10.11	295.86	0.91	4.591	2412.31	1278.00	0.2806	18725795.
31	10.11	295.86	0.91	4.591	2410.96	1278.00	0.2809	18760482.
32	10.12	295.92	0.91	4.591	2409.89	1278.13	0.2812	18791476.
33	10.11	295.81	0.91	4.591	2408.25	1277.88	0.2815	18826639.
34	10.11	295.75	0.91	4.591	2406.76	1277.76	0.2818	18861785.
35	10.11	295.64	0.91	4.591	2405.41	1277.52	0.2820	18889784.
36	10.12	295.58	0.91	4.591	2403.98	1277.40	0.2823	18923302.
37	10.11	295.58	0.91	4.591	2402.70	1277.40	0.2826	18956767.
38	10.12	295.53	0.91	4.591	2401.63	1277.28	0.2828	18981158.
39	10.11	295.42	0.91	4.591	2400.56	1277.04	0.2830	19002017.
40	10.12	295.36	0.91	4.591	2399.70	1276.92	0.2831	19020896.
41	10.12	295.30	0.91	4.591	2398.77	1276.80	0.2833	19041695.
42	10.12	295.25	0.91	4.591	2397.70	1276.68	0.2835	19066287.
43	10.12	295.14	0.91	4.591	2396.63	1276.44	0.2836	19087351.
44	10.11	295.08	0.91	4.591	2395.20	1276.32	0.2839	19121522.

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 18 DATE 6/18/74 TIME= 9.86

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
45	10.12	294.97	0.91	4.591	2393.98	1276.08	0.2841	19146497.
46	10.11	294.86	0.91	4.591	2393.41	1275.84	0.2841	19154435.
47	10.11	294.80	0.91	4.591	2392.40	1275.72	0.2843	19177423.
48	10.12	294.64	0.91	4.591	2391.33	1275.36	0.2844	19195097.
49	10.12	294.58	0.91	4.591	2390.61	1275.24	0.2845	19210550.
50	10.12	294.41	0.90	4.591	2389.68	1274.87	0.2846	19224479.
51	10.12	294.19	0.90	4.591	2388.82	1274.39	0.2846	19232884.
52	10.12	293.97	0.90	4.591	2388.25	1273.91	0.2845	19233638.
53	10.12	293.80	0.90	4.591	2387.89	1273.55	0.2844	19232280.
54	10.13	293.69	0.90	4.591	2387.03	1273.31	0.2845	19248002.
55	10.13	293.41	0.90	4.591	2386.09	1272.70	0.2844	19254699.
56	10.13	293.30	0.90	4.591	2385.37	1272.46	0.2845	19266616.
57	10.13	293.19	0.90	4.591	2384.51	1272.22	0.2846	19282399.
58	10.12	292.69	0.90	4.591	2383.29	1271.13	0.2844	19282194.
59	10.13	292.46	0.90	4.591	2381.85	1270.65	0.2845	19306145.
60	10.12	292.02	0.90	4.591	2381.06	1269.68	0.2843	19298001.
61	10.14	292.30	0.90	4.591	2381.35	1270.29	0.2845	19308656.

PS 0.912 PO295.308 Q 1938. PSF MACH 4.591
 TD 607. RN/L 18333002. PHI 0.0

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VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 19 DATE 6/18/74 TIME=10.34

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
1	10.06	296.64	0.91	4.591	2600.92	1279.69	0.2420	14677249.
2	10.10	297.03	0.91	4.591	2581.88	1280.53	0.2459	15050582.
3	10.11	297.03	0.91	4.591	2559.81	1280.53	0.2502	15475834.
4	10.13	297.03	0.91	4.591	2545.78	1280.53	0.2530	15755018.
5	10.13	297.09	0.91	4.591	2538.03	1280.65	0.2546	15915304.
6	10.13	297.14	0.91	4.591	2531.68	1280.77	0.2559	16048897.
7	10.13	297.14	0.91	4.591	2526.32	1280.77	0.2570	16160092.
8	10.13	297.09	0.91	4.591	2519.46	1280.65	0.2583	16301114.
9	10.14	297.14	0.91	4.591	2508.56	1280.77	0.2606	16536924.
10	10.14	297.14	0.91	4.591	2497.74	1280.77	0.2629	16772364.
11	10.13	297.03	0.91	4.591	2488.26	1280.53	0.2648	16976335.
12	10.13	297.14	0.91	4.591	2481.01	1280.77	0.2664	17145751.
13	10.13	297.20	0.91	4.591	2474.17	1280.89	0.2680	17305168.
14	10.13	297.09	0.91	4.591	2466.19	1280.65	0.2696	17483126.
15	10.13	296.75	0.91	4.591	2458.60	1279.93	0.2710	17641169.
16	10.13	296.86	0.91	4.591	2452.74	1280.17	0.2724	17786892.
17	10.13	296.86	0.91	4.591	2448.83	1280.17	0.2732	17880664.
18	10.13	296.92	0.91	4.591	2445.40	1280.29	0.2741	17966773.
19	10.14	296.98	0.91	4.591	2442.66	1280.41	0.2747	18036485.
20	10.13	297.03	0.91	4.591	2440.77	1280.53	0.2752	18086037.
21	10.13	296.86	0.91	4.591	2438.80	1280.17	0.2755	18123945.
22	10.13	296.81	0.91	4.591	2436.83	1280.05	0.2759	18168827.
23	10.12	296.81	0.91	4.591	2435.28	1280.05	0.2762	18206913.
24	10.13	296.70	0.91	4.591	2433.52	1279.81	0.2765	18243523.
25	10.12	296.70	0.91	4.591	2431.69	1279.81	0.2769	18288873.
26	10.13	296.75	0.91	4.591	2429.51	1279.93	0.2775	18346637.
27	10.12	296.81	0.91	4.591	2426.82	1280.05	0.2782	18417071.
28	10.13	296.70	0.91	4.591	2424.14	1279.81	0.2787	18477543.
29	10.12	296.59	0.91	4.591	2421.52	1279.57	0.2792	18536593.
30	10.12	296.59	0.91	4.591	2418.69	1279.57	0.2798	18588373.
31	10.12	296.59	0.91	4.591	2415.93	1279.57	0.2805	18678812.
32	10.12	296.53	0.91	4.591	2413.02	1279.45	0.2811	18749830.
33	10.13	296.42	0.91	4.591	2410.03	1279.21	0.2817	18819628.
34	10.12	296.36	0.91	4.591	2407.61	1279.09	0.2822	18878669.
35	10.12	296.14	0.91	4.591	2406.83	1278.61	0.2822	18884793.
36	10.12	296.20	0.91	4.591	2406.19	1278.73	0.2824	18904987.
37	10.13	296.25	0.91	4.591	2405.48	1278.85	0.2826	18927071.
38	10.13	296.08	0.91	4.591	2405.12	1278.49	0.2825	18925664.
39	10.12	296.03	0.91	4.591	2404.91	1278.37	0.2825	18927668.
40	10.13	295.92	0.91	4.591	2404.34	1278.12	0.2825	18935396.
41	10.12	295.81	0.91	4.591	2403.34	1277.88	0.2827	18954288.
42	10.13	295.81	0.91	4.591	2401.77	1277.88	0.2830	18995296.
43	10.13	295.81	0.91	4.591	2400.63	1277.89	0.2833	19025218.
44	10.12	295.64	0.91	4.591	2400.13	1277.52	0.2833	19027580.

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 19 DATE 6/18/74 TIME=10.34

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
45	10.12	295.53	0.91	4.591	2399.77	1277.28	0.2832	19029782.
46	10.12	295.47	0.91	4.591	2398.56	1277.16	0.2835	19058099.
47	10.13	295.42	0.91	4.591	2397.63	1277.04	0.2836	19078962.
48	10.13	295.19	0.91	4.591	2396.63	1276.56	0.2837	19090947.
49	10.13	294.97	0.91	4.591	2395.55	1276.08	0.2837	19104848.
50	10.12	294.91	0.91	4.591	2393.84	1275.96	0.2841	19146671.
51	10.13	294.69	0.91	4.591	2392.91	1275.48	0.2841	19156870.
52	10.13	294.53	0.91	4.591	2392.83	1275.12	0.2839	19147908.
53	10.13	294.30	0.90	4.591	2392.76	1274.63	0.2837	19135334.
54	10.13	294.02	0.90	4.591	2392.19	1274.03	0.2836	19132407.
55	10.13	293.80	0.90	4.591	2391.19	1273.55	0.2836	19144490.
56	10.13	293.69	0.90	4.591	2390.68	1273.31	0.2836	19150553.
57	10.13	293.30	0.90	4.591	2390.47	1272.46	0.2833	19130835.
58	10.12	292.97	0.90	4.591	2390.04	1271.74	0.2831	19120442.
59	10.13	292.58	0.90	4.591	2389.54	1270.89	0.2828	19108311.
60	10.13	292.08	0.90	4.591	2388.53	1269.80	0.2826	19102167.
61	10.13	291.57	0.90	4.591	2387.31	1268.71	0.2824	19101708.
62	10.13	291.02	0.89	4.591	2385.95	1267.50	0.2822	19101393.
63	10.13	290.35	0.89	4.591	2385.09	1266.04	0.2817	19080389.
64	10.14	289.63	0.89	4.591	2384.15	1264.46	0.2812	19057563.
65	10.14	288.68	0.89	4.591	2382.86	1262.40	0.2806	19029512.

PS 0.913 PO295.571 Q 1940.PSF MACH 4.591
 TO 610. RN/L 18219403. PHI: 0.0

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 20 DATE 6/18/74 TIME=10.96

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
1	10.08	296.14	0.91	4.591	2543.56	1278.61	0.2526	15752498.
2	10.09	292.80	0.90	4.591	2535.06	1271.37	0.2515	15745646.
3	10.11	285.12	0.88	4.591	2530.39	1254.58	0.2458	15424876.
4	10.12	274.42	0.84	4.591	2525.71	1230.84	0.2374	14936398.
5	10.11	262.79	0.81	4.591	2518.44	1204.46	0.2287	14438256.
6	10.12	251.54	0.77	4.591	2507.60	1178.40	0.2208	14016540.
7	10.12	240.79	0.74	4.591	2494.31	1152.95	0.2136	13653149.
8	10.13	230.60	0.71	4.591	2480.25	1128.30	0.2069	13319825.
9	10.12	220.97	0.68	4.591	2465.36	1104.48	0.2007	13018416.
10	10.13	211.90	0.65	4.591	2451.90	1081.56	0.1945	12710345.
11	10.12	203.27	0.62	4.591	2440.70	1059.31	0.1883	12378001.
12	10.12	195.14	0.60	4.591	2430.56	1037.91	0.1823	12047049.
13	10.12	187.40	0.57	4.591	2419.54	1017.12	0.1767	11744141.
14	10.12	180.16	0.55	4.591	2408.32	997.28	0.1714	11465232.
15	10.12	173.37	0.53	4.591	2397.77	978.30	0.1664	11194446.
16	10.13	166.96	0.51	4.591	2387.24	960.06	0.1617	10939323.
17	10.14	160.50	0.49	4.591	2376.74	941.31	0.1568	10671085.
18	10.14	154.49	0.47	4.591	2366.33	923.51	0.1523	10422044.
19	10.14	149.03	0.46	4.591	2355.01	907.05	0.1483	10215585.
20	10.14	143.63	0.44	4.591	2343.19	890.47	0.1444	10011668.
21	10.15	138.57	0.42	4.591	2332.27	874.62	0.1406	9810115.
22	10.15	133.83	0.41	4.591	2321.74	859.55	0.1370	9619254.
23	10.14	129.15	0.39	4.591	2311.83	844.40	0.1334	9416758.
24	10.13	124.70	0.38	4.591	2302.32	829.71	0.1298	9218211.
25	10.13	124.76	0.38	4.591	2302.02	829.90	0.1299	9226316.

PS 0.609 PO197.285 Q 1295.PSF MACH 4.591
 TO 604. RN/L 12055793. PHI 0.0

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 21 DATE 6/18/74 TIME=11.37

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
1	10.07	296.64	0.91	4.591	2529.37	1279.69	0.2559	16069448.
2	9.64	296.70	0.91	4.591	2521.23	1279.81	0.2576	16242492.
3	8.77	296.64	0.91	4.591	2510.06	1279.69	0.2599	16476754.
4	7.58	296.64	0.91	4.591	2495.61	1279.69	0.2629	16790862.
5	6.24	296.81	0.91	4.591	2482.19	1280.05	0.2659	17099925.
6	4.91	296.86	0.91	4.591	2472.37	1280.17	0.2681	17327099.
7	3.69	296.86	0.91	4.591	2464.80	1280.17	0.2697	17502409.
8	3.26	296.86	0.91	4.591	2458.67	1280.17	0.2711	17646152.
9	3.93	296.81	0.91	4.591	2453.65	1280.05	0.2721	17761916.

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VSD HIGH SPEED WIND TUNNEL TEST 498
RUN 21 DATE 6/18/74 TIME=11.37

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
10	5.22	296.75	0.91	4.591	2449.04	1279.93	0.2731	17868912.

VSD HIGH SPEED WIND TUNNEL TEST 498
RUN 21 DATE 6/18/74 TIME=11.37

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
11	6.67	296.64	0.91	4.591	2443.85	1279.69	0.2741	17987257.

VSD HIGH SPEED WIND TUNNEL TEST 498
RUN 21 DATE 6/18/74 TIME=11.37

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
12	8.06	296.64	0.91	4.591	2439.22	1279.69	0.2752	18100038.

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 21 DATE 6/18/74 TIME=11.37

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
13	9.12	296.47	0.91	4.591	2437.39	1279.33	0.2754	18134576.
14	9.71	296.31	0.91	4.591	2437.18	1278.97	0.2753	18129524.
15	9.96	296.36	0.91	4.591	2436.69	1279.09	0.2755	18145013.
16	10.04	296.36	0.91	4.591	2434.79	1279.09	0.2759	18191718.
17	10.09	296.47	0.91	4.591	2430.92	1279.33	0.2769	18294372.
18	10.09	296.42	0.91	4.591	2427.04	1279.21	0.2777	18387588.
19	10.10	296.42	0.91	4.591	2423.93	1279.21	0.2785	18465541.
20	10.12	296.42	0.91	4.591	2421.38	1279.21	0.2790	18529727.
21	10.12	296.53	0.91	4.591	2419.05	1279.45	0.2797	18595880.
22	10.12	296.47	0.91	4.591	2416.71	1279.33	0.2802	18651893.
23	10.11	296.53	0.91	4.591	2414.93	1279.45	0.2806	18700699.
24	10.12	296.47	0.91	4.591	2413.51	1279.33	0.2809	18733559.
25	10.12	296.42	0.91	4.591	2412.24	1279.21	0.2812	18762860.
26	10.11	296.31	0.91	4.591	2410.81	1278.97	0.2814	18792395.
27	10.11	296.25	0.91	4.591	2409.46	1278.85	0.2817	18823712.
28	10.12	296.14	0.91	4.591	2407.90	1278.61	0.2819	18857113.
29	10.12	296.08	0.91	4.591	2406.26	1278.49	0.2822	18896029.
30	10.12	296.03	0.91	4.591	2404.48	1278.37	0.2826	18938807.
31	10.12	296.03	0.91	4.591	2403.05	1278.37	0.2829	18976010.
32	10.13	295.97	0.91	4.591	2402.27	1278.25	0.2831	18992950.
33	10.13	295.92	0.91	4.591	2401.63	1278.13	0.2832	19006189.
34	10.12	295.81	0.91	4.591	2400.91	1277.88	0.2832	19017731.
35	10.12	295.75	0.91	4.591	2400.13	1277.76	0.2834	19034744.
36	10.12	295.58	0.91	4.591	2399.20	1277.40	0.2834	19048383.
37	10.12	295.58	0.91	4.591	2398.20	1277.40	0.2837	19074684.
38	10.12	295.58	0.91	4.591	2396.56	1277.40	0.2841	19118047.
39	10.12	295.64	0.91	4.591	2395.27	1277.52	0.2844	19155701.
40	10.13	295.53	0.91	4.591	2394.34	1277.28	0.2845	19173138.
41	10.13	295.25	0.91	4.591	2393.98	1276.68	0.2843	19164567.
42	10.12	295.14	0.91	4.591	2393.69	1276.44	0.2843	19164925.
43	10.12	294.97	0.91	4.591	2393.55	1276.08	0.2842	19157878.
44	10.12	294.86	0.91	4.591	2393.05	1275.84	0.2842	19163934.
45	10.13	294.64	0.91	4.591	2392.62	1275.36	0.2841	19160846.
46	10.13	294.58	0.91	4.591	2391.83	1275.24	0.2842	19178149.
47	10.13	294.53	0.91	4.591	2390.97	1275.12	0.2844	19197387.
48	10.13	294.19	0.90	4.591	2389.75	1274.39	0.2843	19208030.
49	10.13	294.14	0.90	4.591	2388.10	1274.27	0.2847	19248398.
50	10.13	293.91	0.90	4.591	2387.24	1273.79	0.2847	19256835.
51	10.12	293.63	0.90	4.591	2386.81	1273.19	0.2845	19250103.
52	10.13	293.30	0.90	4.591	2386.45	1272.46	0.2843	19237791.
53	10.13	293.08	0.90	4.591	2386.02	1271.98	0.2841	19234699.
54	10.13	292.63	0.90	4.591	2385.81	1271.01	0.2838	19211219.
55	10.13	292.24	0.90	4.591	2385.02	1270.16	0.2836	19206708.
56	10.13	291.74	0.90	4.591	2384.51	1269.07	0.2832	19187195.

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 21 DATE 6/18/74 TIME=11.37

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
57	10.13	291.18	0.89	4.591	2383.58	1267.86	0.2829	19175480.
58	10.13	290.52	0.89	4.591	2382.64	1266.41	0.2825	19156387.
59	10.14	289.85	0.89	4.591	2381.64	1264.95	0.2820	19139144.
60	10.12	289.01	0.89	4.591	2380.70	1263.13	0.2815	19108884.
61	10.12	289.01	0.89	4.591	2380.70	1263.13	0.2815	19108884.

PS 0.912 PO295.170 Q 1937.PSF MACH 4.591
 TO 601. RN/L 18596992. PHI 0.0

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 22 DATE 6/18/74 TIME=11.84

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
1	19.99	296.86	0.91	4.591	2499.11	1280.17	0.2623	16726564.
2	20.04	296.86	0.91	4.591	2497.88	1280.17	0.2626	16753637.
3	20.05	296.92	0.91	4.591	2495.06	1280.29	0.2633	16818744.
4	20.07	296.92	0.91	4.591	2490.11	1280.29	0.2643	16928493.
5	20.06	296.75	0.91	4.591	2483.09	1279.93	0.2656	17076461.
6	20.06	296.64	0.91	4.591	2475.07	1279.69	0.2673	17252138.
7	20.06	296.53	0.91	4.591	2469.52	1279.45	0.2684	17373115.
8	20.07	296.36	0.91	4.591	2466.12	1279.09	0.2690	17442138.
9	20.08	296.36	0.91	4.591	2463.55	1279.09	0.2695	17502054.
10	20.07	296.36	0.91	4.591	2460.97	1279.09	0.2701	17562313.
11	20.07	296.36	0.91	4.591	2457.56	1279.09	0.2708	17642665.
12	20.07	296.42	0.91	4.591	2454.28	1279.21	0.2716	17723653.
13	20.07	296.36	0.91	4.591	2450.65	1279.09	0.2724	17806908.
14	20.07	296.31	0.91	4.591	2446.73	1278.97	0.2732	17897609.
15	20.07	296.25	0.91	4.591	2443.22	1278.85	0.2739	17978908.
16	20.07	296.31	0.91	4.591	2439.57	1278.97	0.2748	18071072.
17	20.07	296.20	0.91	4.591	2435.92	1278.73	0.2755	18153782.
18	20.06	296.31	0.91	4.591	2432.33	1278.97	0.2764	18249151.
19	20.07	296.31	0.91	4.591	2429.01	1278.97	0.2772	18331389.
20	20.07	296.36	0.91	4.591	2426.61	1279.09	0.2778	18394728.
21	20.06	296.36	0.91	4.591	2424.85	1279.09	0.2782	18438986.
22	20.06	296.31	0.91	4.591	2423.36	1278.97	0.2785	18472826.
23	20.06	296.25	0.91	4.591	2421.59	1278.85	0.2788	18513928.
24	20.06	296.25	0.91	4.591	2420.04	1278.85	0.2792	18553299.
25	20.06	296.14	0.91	4.591	2418.27	1278.61	0.2795	18591215.
26	20.05	296.03	0.91	4.591	2416.71	1278.37	0.2798	18623570.
27	20.06	295.97	0.91	4.591	2415.29	1278.25	0.2800	18656522.
28	20.06	295.75	0.91	4.591	2413.87	1277.76	0.2802	18678735.
29	20.05	295.75	0.91	4.591	2412.73	1277.76	0.2804	18707818.
30	20.06	295.81	0.91	4.591	2411.60	1277.88	0.2807	18740514.
31	20.05	295.81	0.91	4.591	2410.32	1277.88	0.2810	18773419.
32	20.06	295.75	0.91	4.591	2408.75	1277.76	0.2813	18810222.
33	20.05	295.69	0.91	4.591	2406.55	1277.64	0.2818	18863765.
34	20.06	295.58	0.91	4.591	2404.91	1277.40	0.2821	18899189.
35	20.06	295.58	0.91	4.591	2404.27	1277.40	0.2822	18915880.
36	20.05	295.53	0.91	4.591	2403.70	1277.28	0.2823	18927156.
37	20.05	295.42	0.91	4.591	2403.05	1277.04	0.2824	18936751.
38	20.06	295.36	0.91	4.591	2402.27	1276.92	0.2825	18953651.
39	20.05	295.42	0.91	4.591	2400.77	1277.04	0.2829	18996409.
40	20.07	295.19	0.91	4.591	2398.99	1276.56	0.2831	19028887.
41	20.05	295.08	0.91	4.591	2396.34	1276.32	0.2836	19091290.
42	20.05	294.91	0.91	4.591	2393.84	1275.96	0.2841	19146671.
43	20.06	294.75	0.91	4.591	2392.40	1275.60	0.2842	19173795.
44	20.05	294.69	0.91	4.591	2391.04	1275.48	0.2845	19206361.

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VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 22 DATE 6/18/74 TIME=11.84

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
45	20.06	294.53	0.91	4.591	2390.04	1275.12	0.2846	19222193.
46	20.05	294.14	0.90	4.591	2390.25	1274.27	0.2842	19191033.
47	20.06	293.91	0.90	4.591	2391.33	1273.79	0.2837	19147945.
48	20.06	293.69	0.90	4.591	2391.83	1273.31	0.2834	19120152.
49	20.05	293.58	0.90	4.591	2391.90	1273.06	0.2832	19111004.
50	20.06	293.13	0.90	4.591	2392.05	1272.10	0.2828	19078212.
51	20.05	292.97	0.90	4.591	2392.05	1271.74	0.2826	19067347.
52	20.06	292.74	0.90	4.591	2392.05	1271.25	0.2824	19052850.
53	20.06	292.30	0.90	4.591	2391.26	1270.29	0.2821	19044646.
54	20.06	291.74	0.90	4.591	2389.32	1269.07	0.2821	19059445.
55	20.05	291.24	0.89	4.591	2387.67	1267.98	0.2820	19070322.
56	20.07	290.57	0.89	4.591	2386.60	1266.53	0.2816	19055047.
57	20.05	289.96	0.89	4.591	2386.09	1265.19	0.2811	19028161.
58	20.05	288.96	0.89	4.591	2386.09	1263.01	0.2801	18962395.
59	20.06	288.90	0.89	4.591	2385.81	1262.88	0.2801	18966310.

PS 0.911 PO295.046 Q 1936.PSF MACH 4.591
 TO 603. RN/L 18467142. PHI 0.0

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 23 DATE 6/18/74 TIME=12.44

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
1	19.98	297.10	0.91	4.591	2525.10	1280.67	0.2572	16183231.
2	20.04	297.10	0.91	4.591	2518.10	1280.67	0.2586	16330558.
3	20.08	297.04	0.91	4.591	2507.46	1280.55	0.2608	16554973.
4	20.09	297.15	0.91	4.591	2494.72	1280.79	0.2635	16839627.
5	20.10	297.10	0.91	4.591	2484.74	1280.67	0.2656	17059053.
6	20.09	297.04	0.91	4.591	2477.90	1280.55	0.2670	17210690.
7	20.10	296.82	0.91	4.591	2473.13	1280.07	0.2679	17307023.
8	20.11	296.82	0.91	4.591	2467.93	1280.07	0.2690	17427101.
9	20.11	296.88	0.91	4.591	2462.99	1280.19	0.2701	17545377.
10	20.11	296.93	0.91	4.591	2458.74	1280.31	0.2711	17648527.
11	20.10	296.93	0.91	4.591	2454.28	1280.31	0.2721	17754329.
12	20.11	296.88	0.91	4.591	2450.37	1280.19	0.2729	17844449.
13	20.11	296.76	0.91	4.591	2447.78	1279.95	0.2734	17899935.
14	20.10	296.65	0.91	4.591	2445.40	1279.71	0.2738	17950655.
15	20.10	296.43	0.91	4.591	2442.24	1279.23	0.2743	18013619.
16	20.10	296.54	0.91	4.591	2438.38	1279.47	0.2753	18114600.
17	20.10	296.60	0.91	4.591	2434.37	1279.59	0.2762	18216548.
18	20.10	296.65	0.91	4.591	2431.13	1279.71	0.2770	18300174.
19	20.10	296.65	0.91	4.591	2428.24	1279.71	0.2777	18372160.
20	20.09	296.54	0.91	4.591	2425.62	1279.47	0.2782	18430625.
21	20.10	296.43	0.91	4.591	2423.15	1279.23	0.2787	18485860.
22	20.09	296.37	0.91	4.591	2421.31	1279.11	0.2790	18528784.
23	20.09	296.37	0.91	4.591	2419.40	1279.11	0.2795	18577174.
24	20.09	296.32	0.91	4.591	2417.70	1278.99	0.2798	18616864.
25	20.09	296.26	0.91	4.591	2416.07	1278.87	0.2801	18654909.
26	20.09	296.15	0.91	4.591	2414.44	1278.63	0.2804	18689580.
27	20.09	296.10	0.91	4.591	2412.73	1278.51	0.2807	18729713.
28	20.08	295.93	0.91	4.591	2411.38	1278.15	0.2809	18753806.
29	20.08	295.98	0.91	4.591	2410.39	1278.27	0.2812	18782949.
30	20.09	295.98	0.91	4.591	2409.18	1278.27	0.2815	18814125.
31	20.08	295.93	0.91	4.591	2408.04	1278.15	0.2817	18840015.
32	20.08	295.76	0.91	4.591	2406.90	1277.79	0.2818	18858854.
33	20.09	295.65	0.91	4.591	2405.98	1277.55	0.2819	18875758.
34	20.09	295.65	0.91	4.591	2404.98	1277.55	0.2821	18901661.
35	20.08	295.54	0.91	4.591	2404.12	1277.31	0.2822	18916787.
36	20.08	295.26	0.91	4.591	2403.05	1276.71	0.2822	18926813.
37	20.08	295.15	0.91	4.591	2401.48	1276.47	0.2825	18960617.
38	20.09	295.15	0.91	4.591	2400.49	1276.47	0.2827	18986753.
39	20.08	295.04	0.91	4.591	2399.77	1276.23	0.2828	18998288.
40	20.09	294.82	0.91	4.591	2398.91	1275.74	0.2828	19006407.
41	20.09	294.43	0.90	4.591	2396.98	1274.90	0.2828	19031914.
42	20.08	294.26	0.90	4.591	2394.62	1274.54	0.2832	19083272.
43	20.09	293.98	0.90	4.591	2392.98	1273.94	0.2834	19108706.
44	20.09	293.76	0.90	4.591	2391.26	1273.45	0.2836	19139749.

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VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 23 DATE 6/18/74 TIME=12.44

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
45	20.08	293.65	0.90	4.591	2389.75	1273.21	0.2838	19172456.
46	20.08	293.37	0.90	4.591	2389.32	1272.61	0.2836	19165720.
47	20.09	293.26	0.90	4.591	2389.04	1272.37	0.2836	19166066.
48	20.08	292.64	0.90	4.591	2388.39	1271.04	0.2832	19143176.
49	20.08	292.14	0.90	4.591	2387.67	1269.95	0.2828	19129436.
50	20.08	291.64	0.90	4.591	2386.88	1268.86	0.2825	19117576.
51	20.08	291.08	0.89	4.591	2386.31	1267.65	0.2821	19096313.
52	20.07	290.81	0.89	4.591	2385.95	1267.04	0.2820	19087561.

PS 0.913 PO295.532 Q 1940.PSF MACH 4.591
 TO 606. RN/L 18391322. PHI 0.0

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 24 DATE 6/18/74 TIME=12.93

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
1	10.09	296.65	0.91	4.591	2543.63	1279.71	0.2531	15778430.
2	10.13	296.82	0.91	4.591	2540.26	1280.07	0.2539	15855652.
3	10.13	296.99	0.91	4.591	2535.80	1280.43	0.2549	15955599.
4	10.15	297.10	0.91	4.591	2534.25	1280.67	0.2553	15993525.
5	10.14	297.15	0.91	4.591	2535.06	1280.79	0.2552	15979842.
6	10.14	297.32	0.91	4.591	2531.14	1281.15	0.2561	16069779.
7	10.15	297.38	0.91	4.591	2523.75	1281.27	0.2577	16226852.
8	10.15	297.43	0.91	4.591	2516.20	1281.39	0.2593	16389412.
9	10.15	297.43	0.91	4.591	2509.79	1281.39	0.2606	16526593.
10	10.16	297.10	0.91	4.591	2501.72	1280.67	0.2620	16682822.
11	10.15	297.21	0.91	4.591	2491.97	1280.91	0.2642	16903716.
12	10.17	297.15	0.91	4.591	2482.33	1280.79	0.2662	17116736.
13	10.16	297.15	0.91	4.591	2474.10	1280.79	0.2679	17304221.
14	10.16	297.10	0.91	4.591	2466.74	1280.67	0.2695	17470887.
15	10.15	296.99	0.91	4.591	2461.60	1280.43	0.2705	17584595.
16	10.15	296.93	0.91	4.591	2459.51	1280.31	0.2709	17630449.
17	10.15	297.04	0.91	4.591	2457.84	1280.55	0.2714	17676558.
18	10.15	297.10	0.91	4.591	2455.60	1280.67	0.2719	17732777.
19	10.16	297.04	0.91	4.591	2452.60	1280.55	0.2726	17800953.
20	10.15	297.04	0.91	4.591	2448.97	1280.55	0.2734	17888086.
21	10.15	296.99	0.91	4.591	2445.18	1280.43	0.2742	17975949.
22	10.15	296.82	0.91	4.591	2441.96	1280.07	0.2747	18044129.
23	10.15	296.76	0.91	4.591	2438.94	1279.95	0.2754	18114438.
24	10.16	296.65	0.91	4.591	2436.41	1279.71	0.2758	18169706.
25	10.15	296.60	0.91	4.591	2434.16	1279.59	0.2763	18221761.
26	10.15	296.71	0.91	4.591	2432.33	1279.83	0.2768	18273888.
27	10.14	296.65	0.91	4.591	2430.85	1279.71	0.2771	18307168.
28	10.15	296.60	0.91	4.591	2429.15	1279.59	0.2774	18345842.
29	10.15	296.65	0.91	4.591	2427.32	1279.71	0.2779	18395087.
30	10.15	296.54	0.91	4.591	2425.48	1279.47	0.2782	18434164.
31	10.15	296.54	0.91	4.591	2423.50	1279.47	0.2787	18483897.
32	10.14	296.65	0.91	4.591	2421.38	1279.71	0.2793	18544398.
33	10.14	296.65	0.91	4.591	2419.19	1279.71	0.2798	18600016.
34	10.15	296.49	0.91	4.591	2416.71	1279.35	0.2802	18652647.
35	10.14	296.49	0.91	4.591	2414.65	1279.35	0.2807	18705206.
36	10.15	296.37	0.91	4.591	2413.66	1279.11	0.2808	18723638.
37	10.15	296.37	0.91	4.591	2413.09	1279.11	0.2809	18738208.
38	10.14	296.21	0.91	4.591	2411.81	1278.75	0.2811	18766478.
39	10.15	296.10	0.91	4.591	2410.17	1278.51	0.2813	18795511.
40	10.14	296.10	0.91	4.591	2408.32	1278.51	0.2818	18843277.
41	10.15	296.04	0.91	4.591	2406.40	1278.39	0.2822	18889542.
42	10.14	295.98	0.91	4.591	2405.62	1278.27	0.2823	18906345.
43	10.15	295.87	0.91	4.591	2405.83	1278.03	0.2821	18893687.
44	10.14	295.76	0.91	4.591	2406.19	1277.79	0.2820	18877327.

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 24 DATE 6/18/74 TIME=12.93

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
45	10.14	295.60	0.91	4.591	2406.19	1277.43	0.2818	18866659.
46	10.14	295.48	0.91	4.591	2405.98	1277.19	0.2817	18865099.
47	10.14	295.32	0.91	4.591	2405.69	1276.83	0.2817	18861813.
48	10.14	295.21	0.91	4.591	2405.26	1276.59	0.2816	18865788.
49	10.14	295.04	0.91	4.591	2404.76	1276.23	0.2816	18868058.
50	10.14	294.87	0.91	4.591	2403.98	1275.86	0.2816	18877730.
51	10.14	294.70	0.91	4.591	2403.48	1275.50	0.2816	18879999.
52	10.14	294.54	0.91	4.591	2402.70	1275.14	0.2816	18839687.
53	10.14	294.43	0.90	4.591	2402.06	1274.90	0.2817	18899254.
54	10.14	294.20	0.90	4.591	2401.41	1274.42	0.2816	18901669.
55	10.14	293.98	0.90	4.591	2400.63	1273.94	0.2816	18907817.
56	10.14	293.65	0.90	4.591	2399.77	1273.21	0.2814	18908655.
57	10.14	293.42	0.90	4.591	2398.63	1272.73	0.2815	18924124.
58	10.14	293.15	0.90	4.591	2396.56	1272.12	0.2817	18960367.
59	10.15	292.64	0.90	4.591	2394.84	1271.04	0.2816	18972921.
60	10.15	292.48	0.90	4.591	2394.55	1270.67	0.2815	18969603.

PS 0.914 PO296.094 Q 1943. PSF MACH 4.591
 TO 613. RN/L 18061336. PHI 0.0

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 25 DATE 6/18/74 TIME=13.43

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
1	20.03	297.04	0.91	4.591	2503.29	1280.55	0.2616	16645388.
2	20.05	297.04	0.91	4.591	2497.54	1280.55	0.2628	16771279.
3	20.07	296.93	0.91	4.591	2489.91	1280.31	0.2644	16933779.
4	20.09	296.99	0.91	4.591	2482.12	1280.43	0.2661	17111797.
5	20.09	296.93	0.91	4.591	2477.49	1280.31	0.2670	17213689.
6	20.09	296.93	0.91	4.591	2475.27	1280.31	0.2675	17264273.
7	20.09	296.93	0.91	4.591	2472.92	1280.31	0.2680	17318295.
8	20.10	296.88	0.91	4.591	2470.42	1280.19	0.2685	17372546.
9	20.09	296.82	0.91	4.591	2468.20	1280.07	0.2689	17420666.
10	20.09	296.76	0.91	4.591	2465.63	1279.95	0.2694	17477111.
11	20.10	296.76	0.91	4.591	2461.88	1279.95	0.2703	17564885.
12	20.09	296.71	0.91	4.591	2457.42	1279.83	0.2712	17666563.
13	20.09	296.60	0.91	4.591	2453.09	1279.59	0.2720	17762610.
14	20.09	296.60	0.91	4.591	2448.97	1279.59	0.2730	17861261.
15	20.09	296.60	0.91	4.591	2445.96	1279.59	0.2736	17933743.
16	20.09	296.60	0.91	4.591	2444.20	1279.59	0.2740	17976110.
17	20.08	296.54	0.91	4.591	2442.31	1279.47	0.2744	18018682.
18	20.09	296.43	0.91	4.591	2439.15	1279.23	0.2750	18088895.
19	20.09	296.60	0.91	4.591	2435.78	1279.59	0.2759	18181865.
20	20.09	296.43	0.91	4.591	2432.47	1279.23	0.2765	18253259.
21	20.09	296.32	0.91	4.591	2430.00	1278.99	0.2770	18307571.
22	20.08	296.32	0.91	4.591	2427.95	1278.99	0.2774	18358513.
23	20.08	296.37	0.91	4.591	2425.69	1279.11	0.2780	18418466.
24	20.08	296.37	0.91	4.591	2423.86	1279.11	0.2784	18464594.
25	20.08	296.26	0.91	4.591	2422.37	1278.87	0.2787	18495040.
26	20.08	296.26	0.91	4.591	2420.96	1278.87	0.2790	18530763.
27	20.08	296.04	0.91	4.591	2419.61	1278.39	0.2791	18550852.
28	20.08	296.10	0.91	4.591	2418.27	1278.51	0.2795	18588474.
29	20.08	295.98	0.91	4.591	2416.99	1278.27	0.2797	18613901.
30	20.07	295.87	0.91	4.591	2415.93	1278.03	0.2798	18633935.
31	20.08	295.87	0.91	4.591	2415.07	1278.03	0.2800	18655699.
32	20.08	295.76	0.91	4.591	2413.80	1277.79	0.2802	18681311.
33	20.07	295.71	0.91	4.591	2412.38	1277.67	0.2805	18714164.
34	20.08	295.71	0.91	4.591	2411.52	1277.67	0.2807	18736043.
35	20.07	295.54	0.91	4.591	2410.60	1277.31	0.2807	18749194.
36	20.08	295.37	0.91	4.591	2409.61	1276.95	0.2808	18764203.
37	20.07	295.37	0.91	4.591	2408.47	1276.95	0.2811	18793540.
38	20.08	295.37	0.91	4.591	2406.55	1276.95	0.2815	18843216.
39	20.07	295.09	0.91	4.591	2404.27	1276.35	0.2818	18884575.
40	20.08	294.93	0.91	4.591	2402.34	1275.98	0.2821	18923975.
41	20.07	294.76	0.91	4.591	2401.27	1275.62	0.2822	18941161.
42	20.06	294.59	0.91	4.591	2399.91	1275.26	0.2823	18965866.
43	20.07	294.43	0.90	4.591	2397.99	1274.90	0.2826	19005629.
44	20.07	294.31	0.90	4.591	2397.27	1274.66	0.2827	19017199.

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 25 DATE 6/18/74 TIME=13.43

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
45	20.08	294.09	0.90	4.591	2397.84	1274.18	0.2823	18987810.
46	20.07	293.87	0.90	4.591	2398.41	1273.69	0.2820	18958464.
47	20.06	293.65	0.90	4.591	2397.99	1273.21	0.2819	18955308.
48	20.08	293.48	0.90	4.591	2396.98	1272.85	0.2819	18970720.
49	20.08	293.03	0.90	4.591	2395.27	1271.88	0.2819	18986919.
50	20.07	292.64	0.90	4.591	2394.27	1271.04	0.2818	18987959.
51	20.06	292.25	0.90	4.591	2393.98	1270.19	0.2815	18970180.
52	20.07	291.81	0.90	4.591	2393.84	1269.22	0.2811	18945019.
53	20.07	291.20	0.89	4.591	2393.55	1267.89	0.2805	18912751.
54	20.08	290.64	0.89	4.591	2393.19	1266.68	0.2801	18885946.
55	20.06	289.86	0.89	4.591	2392.40	1264.98	0.2795	18855839.
56	20.07	289.08	0.89	4.591	2391.19	1263.27	0.2791	18836887.
57	20.07	288.08	0.89	4.591	2390.40	1261.08	0.2783	18792097.
58	20.07	288.13	0.89	4.591	2390.68	1261.20	0.2783	18788267.

PS 0.911 PO295.732 Q 1936.PSF MACH 4.591
 TO 606. RN/L 18350108. PHI 0.0

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 26 DATE 6/18/74 TIME=14.58

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
1	0.07	301.05	0.93	4.591	2585.52	1289.17	0.2486	15184660.
2	0.07	299.66	0.92	4.591	2565.36	1286.18	0.2513	15503303.
3	0.07	298.49	0.92	4.591	2544.10	1283.67	0.2545	15866581.
4	0.08	297.66	0.91	4.591	2529.71	1281.87	0.2567	16117348.
5	0.07	297.04	0.91	4.591	2521.71	1280.55	0.2578	16251420.
6	0.07	296.71	0.91	4.591	2518.37	1279.83	0.2582	16303376.
7	0.08	296.21	0.91	4.591	2516.06	1278.75	0.2583	16324797.
8	0.08	296.15	0.91	4.591	2510.06	1278.63	0.2594	16449588.
9	0.07	296.10	0.91	4.591	2502.88	1278.51	0.2609	16601257.
10	0.08	296.21	0.91	4.591	2496.92	1278.75	0.2622	16737666.
11	0.07	296.43	0.91	4.591	2490.80	1279.23	0.2637	16885320.
12	0.08	296.43	0.91	4.591	2479.91	1279.23	0.2660	17129693.
13	0.07	296.60	0.91	4.591	2472.92	1279.59	0.2677	17298810.
14	0.07	296.43	0.91	4.591	2473.96	1279.23	0.2673	17265236.
15	0.07	296.49	0.91	4.591	2471.46	1279.35	0.2679	17325769.
16	0.08	296.26	0.91	4.591	2462.09	1278.87	0.2698	17530331.

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VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 26 DATE 6/18/74 TIME=14.58

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
17	10.11	295.37	0.91	4.591	2389.90	1276.95	0.2854	19281323.
18	10.12	295.48	0.91	4.591	2388.82	1277.19	0.2858	19317389.
19	10.13	295.26	0.91	4.591	2387.24	1276.71	0.2860	19345174.
20	10.13	295.09	0.91	4.591	2385.30	1276.35	0.2863	19386376.
21	10.13	295.21	0.91	4.591	2383.72	1276.59	0.2868	19436386.
22	10.13	294.93	0.91	4.591	2382.64	1275.98	0.2867	19447219.
23	10.13	294.70	0.91	4.591	2381.71	1275.50	0.2868	19457854.
24	10.13	294.59	0.91	4.591	2380.56	1275.26	0.2869	19481728.
25	10.13	294.59	0.91	4.591	2379.05	1275.26	0.2873	19522834.
26	10.14	294.48	0.90	4.591	2377.53	1275.02	0.2875	19556698.
27	10.13	294.15	0.90	4.591	2376.67	1274.30	0.2874	19558113.
28	10.14	294.09	0.90	4.591	2376.02	1274.18	0.2875	19572151.
29	10.14	293.81	0.90	4.591	2375.80	1273.57	0.2873	19559532.

PS 0.914 PO296.062 Q 1943.PSF MACH 4.591
 TO 619. RN/L 17851633. PHI 0.0

VSD HIGH SPEED WIND TUNNEL TEST 498
RUN 27 DATE 6/18/74 TIME=15.50

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
1	0.05	295.93	0.91	4.591	2562.29	1278.15	0.2488	15370074.
2	0.05	296.04	0.91	4.591	2554.05	1278.39	0.2505	15537712.
3	0.05	296.15	0.91	4.591	2549.35	1278.63	0.2515	15637012.
4	0.05	296.37	0.91	4.591	2545.78	1279.11	0.2524	15720218.
5	0.06	296.49	0.91	4.591	2543.36	1279.35	0.2530	15774984.

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 27 DATE 6/18/74 TIME=15.50

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
6	10.12	295.15	0.91	4.591	2399.70	1276.47	0.2829	19007326.
7	10.11	295.21	0.91	4.591	2399.13	1276.59	0.2831	19025907.
8	10.13	295.09	0.91	4.591	2398.99	1276.35	0.2830	19022477.
9	10.12	295.04	0.91	4.591	2398.91	1276.23	0.2830	19020767.
10	10.12	295.09	0.91	4.591	2399.13	1276.35	0.2830	19018731.
11	10.12	294.82	0.91	4.591	2399.13	1275.74	0.2827	19000791.
12	10.12	294.65	0.91	4.591	2398.84	1275.38	0.2826	18997505.
13	10.12	294.59	0.91	4.591	2398.56	1275.26	0.2826	19001408.
14	10.12	294.48	0.90	4.591	2397.99	1275.02	0.2827	19009225.

PS 0.912 PO295.369 Q 1939. PSF MACH 4.591
 TO 620. RN/L 17795999. PHI 0.0

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 28 DATE 6/18/74 TIME=16.17

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
1	20.05	296.32	0.91	4.591	2477.00	1278.99	0.2666	17189202.
2	20.07	296.43	0.91	4.591	2470.91	1279.23	0.2680	17335295.
3	20.08	296.49	0.91	4.591	2466.88	1279.35	0.2689	17431644.
4	20.07	296.49	0.91	4.591	2465.56	1279.35	0.2692	17462324.
5	20.08	296.65	0.91	4.591	2463.90	1279.71	0.2697	17511077.
6	20.08	296.71	0.91	4.591	2464.17	1279.83	0.2697	17507864.
7	20.09	296.76	0.91	4.591	2465.98	1279.95	0.2694	17469016.
8	20.08	296.65	0.91	4.591	2464.10	1279.71	0.2697	17506207.
9	20.08	296.43	0.91	4.591	2457.07	1279.23	0.2710	17658226.
10	20.08	296.37	0.91	4.591	2450.02	1279.11	0.2725	17822699.
11	20.08	296.32	0.91	4.591	2445.54	1278.99	0.2735	17927051.
12	20.08	296.04	0.91	4.591	2444.76	1278.39	0.2734	17928812.
13	20.07	296.04	0.91	4.591	2445.46	1278.39	0.2732	17911900.
14	20.08	296.15	0.91	4.591	2444.55	1278.63	0.2735	17940641.
15	20.07	296.15	0.91	4.591	2441.96	1278.63	0.2741	18003512.
16	20.07	296.15	0.91	4.591	2437.96	1278.63	0.2750	18101114.
17	20.07	296.21	0.91	4.591	2434.02	1278.75	0.2760	18201281.

PS 0.915 PO296.379 Q 1945.PSF MACH 4.591
 TO 620. RN/L 17700444. PHI 0.0

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VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 29 DATE 6/18/74 TIME=16.60

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
1	0.06	208.59	0.64	4.591	2515.31	1073.10	0.1820	11507502.
2	0.07	207.82	0.64	4.591	2504.46	1071.10	0.1829	11627751.
3	0.07	207.37	0.64	4.591	2493.90	1069.95	0.1840	11764399.
4	0.06	207.15	0.64	4.591	2483.84	1069.37	0.1853	11908329.
5	0.06	207.04	0.63	4.591	2473.89	1069.09	0.1867	12059758.
6	0.06	207.04	0.63	4.591	2465.01	1069.09	0.1881	12203056.
7	0.07	207.26	0.64	4.591	2457.42	1069.66	0.1894	12340633.
8	0.07	207.31	0.64	4.591	2448.27	1069.80	0.1909	12496420.
9	0.06	207.54	0.64	4.591	2438.38	1070.38	0.1926	12677732.
10	0.06	207.82	0.64	4.591	2429.58	1071.10	0.1943	12846995.
11	0.06	208.09	0.64	4.591	2422.51	1071.81	0.1957	12988403.
12	0.07	208.21	0.64	4.591	2416.64	1072.10	0.1968	13100048.
13	0.06	208.26	0.64	4.591	2411.38	1072.24	0.1977	13198126.
14	0.06	208.32	0.64	4.591	2407.04	1072.39	0.1984	13280501.
15	0.07	208.43	0.64	4.591	2403.48	1072.67	0.1991	13352863.
16	0.07	208.26	0.64	4.591	2400.34	1072.24	0.1995	13399993.
17	0.07	208.26	0.64	4.591	2397.70	1072.24	0.1999	13448949.
18	0.08	208.09	0.64	4.591	2395.34	1071.81	0.2002	13482044.
19	0.08	207.98	0.64	4.591	2393.34	1071.53	0.2004	13512238.
20	0.08	208.09	0.64	4.591	2392.76	1071.81	0.2006	13530200.
21	0.07	207.93	0.64	4.591	2392.55	1071.38	0.2005	13523363.
22	0.08	207.93	0.64	4.591	2391.69	1071.38	0.2006	13539471.
23	0.08	207.93	0.64	4.591	2389.82	1071.38	0.2009	13574438.
24	0.08	207.98	0.64	4.591	2387.82	1071.53	0.2013	13616013.
25	0.08	207.98	0.64	4.591	2386.31	1071.53	0.2016	13644548.
26	0.08	207.93	0.64	4.591	2385.23	1071.38	0.2017	13661335.
27	0.08	207.98	0.64	4.591	2384.87	1071.53	0.2018	13671821.
28	0.08	207.93	0.64	4.591	2384.73	1071.38	0.2018	13670891.
29	0.08	207.98	0.64	4.591	2384.23	1071.53	0.2019	13684123.
30	0.08	207.93	0.64	4.591	2383.51	1071.38	0.2020	13694145.
31	0.08	207.98	0.64	4.591	2382.64	1071.53	0.2022	13714270.
32	0.09	207.98	0.64	4.591	2381.42	1071.53	0.2024	13737645.
33	0.09	207.98	0.64	4.591	2380.49	1071.53	0.2026	13755563.
34	0.08	208.09	0.64	4.591	2379.48	1071.81	0.2028	13782278.
35	0.08	208.09	0.64	4.591	2378.90	1071.81	0.2029	13793360.
36	0.09	208.04	0.64	4.591	2378.47	1071.67	0.2030	13797988.
37	0.08	207.98	0.64	4.591	2377.68	1071.53	0.2030	13809559.
38	0.08	207.98	0.64	4.591	2377.39	1071.53	0.2031	13815118.
39	0.09	207.93	0.64	4.591	2377.32	1071.38	0.2031	13812810.
40	0.08	207.87	0.64	4.591	2377.32	1071.24	0.2030	13809111.
41	0.08	207.93	0.64	4.591	2376.88	1071.38	0.2031	13821157.
42	0.08	208.09	0.64	4.591	2375.95	1071.81	0.2035	13850376.
43	0.08	207.87	0.64	4.591	2374.29	1071.24	0.2035	13867677.
44	0.08	207.98	0.64	4.591	2373.49	1071.53	0.2038	13890523.

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 29 DATE 6/18/74 TIME=16.60

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
45	0.08	207.98	0.64	4.591	2374.00	1071.53	0.2037	13880709.
46	0.08	207.98	0.64	4.591	2374.00	1071.53	0.2037	13880709.
47	0.08	207.87	0.64	4.591	2373.49	1071.24	0.2037	13883087.
48	0.09	207.87	0.64	4.591	2373.78	1071.24	0.2036	13877479.
49	0.08	207.93	0.64	4.591	2373.56	1071.38	0.2037	13885407.
50	0.08	207.98	0.64	4.591	2373.13	1071.53	0.2038	13897542.
51	0.09	207.93	0.64	4.591	2373.28	1071.38	0.2037	13891015.
52	0.08	207.98	0.64	4.591	2373.35	1071.53	0.2038	13893331.
53	0.08	207.98	0.64	4.591	2373.06	1071.53	0.2038	13898943.
54	0.08	207.98	0.64	4.591	2373.56	1071.53	0.2038	13889120.
55	0.08	207.93	0.64	4.591	2375.37	1071.38	0.2034	13850424.
56	0.09	207.87	0.64	4.591	2377.24	1071.24	0.2030	13810500.
57	0.08	207.93	0.64	4.591	2377.96	1071.38	0.2029	13800310.
58	0.09	207.93	0.64	4.591	2378.83	1071.38	0.2028	13783672.
59	0.08	207.82	0.64	4.591	2380.27	1071.10	0.2024	13748651.
60	0.12	208.04	0.64	4.591	2381.64	1071.67	0.2024	13737193.
61	0.60	207.98	0.64	4.591	2382.64	1071.53	0.2022	13714270.

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 29 DATE 6/18/74 TIME=16.60

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
68	10.13	208.09	0.64	4.591	2384.87	1071.81	0.2019	13679140.
69	10.14	208.04	0.64	4.591	2385.09	1071.67	0.2018	13671383.
70	10.14	207.98	0.64	4.591	2385.66	1071.53	0.2017	13656809.
71	10.14	208.09	0.64	4.591	2386.17	1071.81	0.2017	13654576.
72	10.14	207.98	0.64	4.591	2386.52	1071.53	0.2015	13640464.
73	10.14	207.98	0.64	4.591	2386.24	1071.53	0.2016	13645910.
74	10.14	208.09	0.64	4.591	2385.23	1071.81	0.2019	13672308.
75	10.14	207.98	0.64	4.591	2383.72	1071.53	0.2020	13693702.
76	10.14	208.09	0.64	4.591	2382.50	1071.81	0.2023	13724363.
77	10.15	208.04	0.64	4.591	2382.07	1071.67	0.2024	13728937.
78	10.15	207.98	0.64	4.591	2381.92	1071.53	0.2023	13728010.
79	10.14	207.98	0.64	4.591	2381.71	1071.53	0.2024	13732138.
80	10.15	207.98	0.64	4.591	2381.56	1071.53	0.2024	13734889.
81	10.15	207.98	0.64	4.591	2381.06	1071.53	0.2025	13744531.
82	10.14	207.98	0.64	4.591	2379.48	1071.53	0.2027	13774902.
83	10.15	207.98	0.64	4.591	2378.68	1071.53	0.2029	13790133.
84	10.15	207.93	0.64	4.591	2379.26	1071.38	0.2027	13775368.
85	10.16	207.93	0.64	4.591	2380.27	1071.38	0.2026	13756018.
86	10.15	207.98	0.64	4.591	2381.64	1071.53	0.2024	13733515.
87	10.15	208.09	0.64	4.591	2382.79	1071.81	0.2023	13718864.
88	10.15	207.98	0.64	4.591	2383.43	1071.53	0.2021	13699180.
89	10.14	207.98	0.64	4.591	2382.64	1071.53	0.2022	13714270.
90	10.15	207.93	0.64	4.591	2381.64	1071.38	0.2023	13729840.
91	10.15	208.04	0.64	4.591	2381.42	1071.67	0.2025	13741322.
92	10.15	207.98	0.64	4.591	2382.07	1071.53	0.2023	13725260.
93	10.15	207.98	0.64	4.591	2382.43	1071.53	0.2022	13718392.

PS 0.642 PO207.958 Q 1365.PSF MACH 4.591
 TO 590. RN/L 13527545. PHI 0.0

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 30: DATE 6/18/74 TIME=17.14

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
1	10.15	297.29	0.91	4.591	2604.41	1281.09	0.2419	14645854.
2	10.15	296.74	0.91	4.591	2593.60	1279.89	0.2435	14816590.
3	10.14	296.46	0.91	4.591	2586.32	1279.29	0.2446	14938067.
4	10.15	296.40	0.91	4.591	2579.95	1279.17	0.2458	15055118.
5	10.15	296.40	0.91	4.591	2568.83	1279.17	0.2479	15267579.
6	10.14	296.46	0.91	4.591	2554.72	1279.29	0.2507	15546339.
7	10.14	296.62	0.91	4.591	2541.68	1279.65	0.2534	15816486.
8	10.14	296.74	0.91	4.591	2533.77	1279.89	0.2551	15983769.
9	10.14	296.96	0.91	4.591	2529.85	1280.37	0.2561	16076846.
10	10.15	297.07	0.91	4.591	2525.37	1280.61	0.2571	16176031.
11	10.14	297.07	0.91	4.591	2520.01	1280.61	0.2582	16289745.
12	10.15	297.01	0.91	4.591	2513.54	1280.49	0.2595	16422990.
13	10.15	296.85	0.91	4.591	2504.32	1280.13	0.2612	16612166.
14	10.15	296.85	0.91	4.591	2493.83	1280.13	0.2634	16842002.
15	10.15	296.68	0.91	4.591	2484.19	1279.77	0.2653	17047483.
16	10.14	296.57	0.91	4.591	2476.17	1279.53	0.2670	17222659.
17	10.16	296.79	0.91	4.591	2470.42	1280.01	0.2684	17367648.
18	10.15	296.57	0.91	4.591	2466.26	1279.53	0.2691	17451076.
19	10.14	296.68	0.91	4.591	2461.81	1279.77	0.2702	17561563.
20	10.15	296.68	0.91	4.591	2456.65	1279.77	0.2713	17683044.
21	10.15	296.62	0.91	4.591	2452.04	1279.65	0.2723	17789262.

PS 0.916 PO296.743 Q 1948.PSF MACH 4.591
 TO 654. RN/L 16314811. PHI 0.0

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VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 31 DATE 6/18/74 TIME=17.66

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
1	10.14	209.65	0.64	4.591	2482.26	1075.82	0.1878	12077656.
2	10.14	207.65	0.64	4.591	2468.06	1070.67	0.1881	12189427.
3	10.15	206.31	0.63	4.591	2458.88	1067.21	0.1883	12260239.
4	10.14	205.70	0.63	4.591	2457.77	1065.63	0.1879	12242093.
5	10.14	205.76	0.63	4.591	2458.25	1065.77	0.1879	12237416.
6	10.14	205.98	0.63	4.591	2456.02	1066.35	0.1885	12287310.
7	10.14	206.37	0.63	4.591	2454.56	1067.36	0.1890	12334753.
8	10.14	206.92	0.63	4.591	2453.65	1068.80	0.1897	12383096.
9	10.14	207.26	0.64	4.591	2451.34	1069.66	0.1904	12441515.
10	10.14	207.59	0.64	4.591	2451.55	1070.52	0.1906	12458060.
11	10.13	207.98	0.64	4.591	2450.92	1071.53	0.1911	12491995.
12	10.14	208.04	0.64	4.591	2445.96	1071.67	0.1919	12579100.
13	10.13	208.21	0.64	4.591	2436.55	1072.10	0.1936	12750027.
14	10.13	208.37	0.64	4.591	2425.27	1072.53	0.1955	12957036.
15	10.13	208.15	0.64	4.591	2415.43	1071.96	0.1969	13118159.
16	10.13	208.15	0.64	4.591	2407.26	1071.96	0.1982	13265964.
17	10.13	208.04	0.64	4.591	2400.49	1071.67	0.1993	13383026.
18	10.13	207.98	0.64	4.591	2394.77	1071.53	0.2002	13485503.
19	10.13	207.93	0.64	4.591	2390.61	1071.38	0.2008	13559654.
20	10.13	207.93	0.64	4.591	2387.67	1071.38	0.2013	13615081.
21	10.13	207.87	0.64	4.591	2384.94	1071.24	0.2017	13663135.
22	10.13	207.93	0.64	4.591	2382.64	1071.38	0.2021	13710502.
23	10.14	207.82	0.64	4.591	2380.56	1071.10	0.2024	13743142.
24	10.13	207.76	0.64	4.591	2378.54	1070.95	0.2027	13778141.
25	10.14	207.87	0.64	4.591	2376.96	1071.24	0.2031	13816063.
26	10.14	207.82	0.64	4.591	2376.02	1071.10	0.2032	13830452.
27	10.14	207.76	0.64	4.591	2375.15	1070.95	0.2033	13843480.
28	10.13	207.65	0.64	4.591	2373.78	1070.67	0.2034	13862611.
29	10.15	207.65	0.64	4.591	2372.48	1070.67	0.2036	13887846.
30	10.14	207.59	0.64	4.591	2371.18	1070.52	0.2038	13909423.
31	10.13	207.76	0.64	4.591	2369.88	1070.95	0.2042	13946013.
32	10.14	207.59	0.64	4.591	2368.72	1070.52	0.2042	13957428.
33	10.15	207.59	0.64	4.591	2367.78	1070.52	0.2044	13975854.
34	10.14	207.65	0.64	4.591	2367.71	1070.67	0.2044	13981022.
35	10.14	207.54	0.64	4.591	2368.14	1070.38	0.2042	13965017.
36	10.13	207.59	0.64	4.591	2368.51	1070.52	0.2042	13961677.
37	10.14	207.54	0.64	4.591	2368.29	1070.38	0.2042	13962181.
38	10.15	207.59	0.64	4.591	2367.78	1070.52	0.2044	13975854.
39	10.14	207.54	0.64	4.591	2367.35	1070.38	0.2044	13980623.
40	10.14	207.54	0.64	4.591	2367.13	1070.38	0.2044	13984888.
41	10.14	207.59	0.64	4.591	2366.70	1070.52	0.2046	13997174.
42	10.14	207.59	0.64	4.591	2365.75	1070.52	0.2047	14015489.
43	10.15	207.65	0.64	4.591	2365.10	1070.67	0.2049	14032299.
44	10.14	207.59	0.64	4.591	2364.96	1070.52	0.2049	14031388.

VSD HIGH SPEED WIND TUNNEL TEST 498
 RUN 31 DATE 6/18/74 TIME=17.66

PNT	ALPHA	PO	PS	MACH	V	VEAS	SIGMA	RN/L
45	10.14	207.59	0.64	4.591	2364.67	1070.52	0.2049	14037104.
46	10.14	207.65	0.64	4.591	2364.16	1070.67	0.2050	14050888.
47	10.14	207.65	0.64	4.591	2363.51	1070.67	0.2052	14063785.
48	10.14	207.54	0.64	4.591	2363.00	1070.38	0.2051	14066276.
49	10.14	207.59	0.64	4.591	2362.49	1070.52	0.2053	14080106.
50	10.14	207.59	0.64	4.591	2362.13	1070.52	0.2053	14087294.
51	10.15	207.43	0.64	4.591	2361.84	1070.09	0.2052	14081711.
52	10.15	207.59	0.64	4.591	2361.04	1070.52	0.2055	14108899.
53	10.15	207.54	0.64	4.591	2360.17	1070.38	0.2056	14122431.
54	10.14	207.54	0.64	4.591	2359.23	1070.38	0.2058	14141230.
55	10.14	207.54	0.64	4.591	2358.35	1070.38	0.2059	14158618.
56	10.15	207.43	0.64	4.591	2357.70	1070.09	0.2059	14164084.
57	10.14	207.54	0.64	4.591	2357.56	1070.38	0.2061	14174597.
58	10.15	207.54	0.64	4.591	2357.85	1070.38	0.2060	14168785.
59	10.14	207.59	0.64	4.591	2358.35	1070.52	0.2060	14162421.
60	10.14	207.43	0.64	4.591	2358.72	1070.09	0.2058	14143776.
61	10.14	207.54	0.64	4.591	2358.57	1070.38	0.2059	14154270.
62	10.14	207.59	0.64	4.591	2358.65	1070.52	0.2060	14156620.
63	10.15	207.54	0.64	4.591	2358.79	1070.38	0.2059	14149922.
64	10.14	207.59	0.64	4.591	2358.94	1070.52	0.2059	14150823.
65	10.14	207.48	0.64	4.591	2359.01	1070.23	0.2058	14141784.
66	10.15	207.37	0.64	4.591	2358.86	1069.95	0.2057	14137087.

PS 0.641 PO207.578 Q 1362.PSF MACH 4.591
 TO 587. RN/L 13615591. PHI 0.0